ORDER NO. VRD9106M141

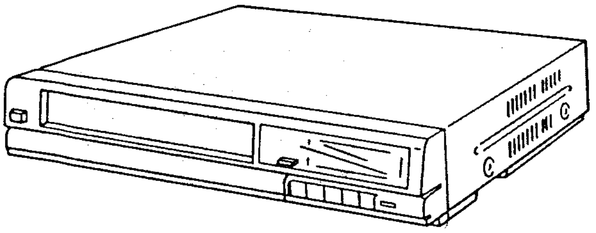
Service Manual

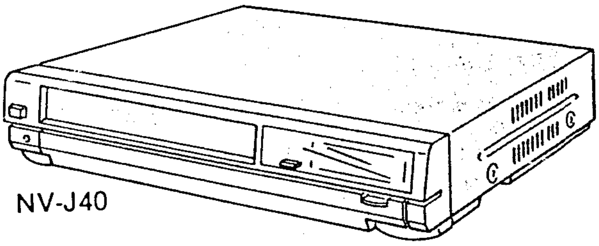
Video Cassette Recorder

Panasonic VHS PAL HQ

NV-J11 AM/EN BA/BD
NV-J40EE

General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List





NV-J40

SPECIFICATIONS

ITEM	SPECIFICATION		
POWER	SOURCE:	110~240V AC 50/60Hz (NV-J11AM/EN/BD) 220~240V AC 50/60Hz (NV-J11BA) 220V AC 50/60Hz (NV-J40EE)	
	CONSUMPTION:	23 watts (NV-J11AM/EN) 24 watts (NV-J11BA, J40EE) 25 watts (NV-J11BD)	
RECORDING SYSTEM	2 rotary heads, helical scanning system		
	PAL		
TV TUNER SYSTEM	NV-J11AM	VHF I:	CH1~CH5 (D.K.K1) CH2~CH4 (PAL/SECAM B) 75Ω unbalanced
		VHF III:	CH6~CH12 (D.K.K1) CH5~CH12 (PAL/SECAM B) 75Ω unbalanced
		UHF:	CH13~CH57 (D.K.K1) CH21~CH69 (PAL/SECAM G) 75Ω unbalanced
	NV-J11EN	VHF I:	CH2~C4
		VHF III:	CH5~CH12 (PAL/SECAM B) 75Ω unbalanced
		UHF:	CH21~CH69 (PAL/SECAM G) 75Ω unbalanced
	NV-J11BA	VHF III:	CH4~CH13 (PAL I)
		UHF:	CH21~CH68 (PAL I) 75Ω unbalanced
	NV-J11BD	VHF I:	CHC1~CHC5 (PAL D/SECAM D.K)
		VHF III:	CHC6~CHC12 (PAL D/SECAM D.K)
		UHF:	CHE21~CHE69 (PAL I/SECAM D.K) CHC13~CHC57 (PAL D) 75Ω unbalanced
	NV-J40EE	VHF I:	CH1~CH5 (SECAM OIRT) CH2~CH4, CHS1~CHS3 (PAL/SECAM B · G)
		VHF III:	CH6~CH12 (SECAM OIRT) CHM1~CHM10, CH5~CH12, CHU1~CHU10 (PAL/SECAM B · G)
		UHF:	CH21~CH69 (SECAM OIRT, PAL/SECAM B · G) 75Ω unbalanced

ITEM	SPECIFICATION		
RF OUT SYSTEM	NV-J11AM, J40EE	UHF:	CHC25$^{+2}_{-1}$ (D.K.K1) CHE38$^{+2}_{-6}$ (PAL/SECAM G) 73±3dBμ, 75Ω unbalanced
	NV-J11EN	VHF:	CH 3/4 (PAL B) 76±3dBμ, 75Ω unbalanced
	NV-J11BA	UHF:	CH36±4 (PAL I) 73±3dBμ, 75Ω unbalanced
	NV-J11BD	UHF:	CHC38$^{+2}_{-6}$ (PAL I/SECAM D.K) CHE25$^{+2}_{-1}$ (PAL D) 73±3dBμ, 75Ω unbalanced
VIDEO	HEADS:	3 rotary heads 1 pair for recording and playback (L-R heads) 1 pc. for trick play (L' head)	
	INPUT:	VIDEO IN CONNECTOR (Phono type) 1.0Vp-p, 75Ω terminated	
	OUTPUT:	VIDEO OUT CONNECTOR (Phono type) 1.0Vp-p, 75Ω terminated	
AUIDO	HEAD:	1 Stationary head (Normal Audio)	
	INPUT:	AUDIO IN CONNECTOR (phono type) More than −10dBV (316mV), 50kΩ	
	OUTPUT:	AUDIO OUT CONNECTOR (Phono type) −6dBV (500mV), Less than 1kΩ	
TAPE FORMAT	VHS Cassette tape (Tape width 12.7mm)		
TAPE SPEED	23.39mm/s Record/Playback Time: 4 hours with 240min. type tape FF/REW Time: 2.5min. with 180min. type tape		
DIMENSIONS	380 (W) × 82 (H) × 345 (D)mm (NV-J11AM/EN/BA/BD) 380 (W) × 82 (H) × 359.5 (D)mm (NV-J40EE)		
WEIGHT	5.0kg (NV-J11AM/EN/BA/BD) 5.1kg (NV-J40EE)		
STANDARD ACCESSORIES	1pc. DIN-RF Cable 1pc. Programme Sheet (NV-J11BA, J40EE) 1pc. AC Mains Lead 1pc. Infra-red Remote Controller (NV-J11AM/EN/BD) 1pc. Infra-red Remote Controller (Build in Digital Scanner type) (NV-J11BA, J40EE) 1pc. Separation Adaptor (NV-J11AM/EN/BD) 1pc. AC Plug Adaptor (NV-J11AM/BD) 1pc. Matching Adaptor (NV-J11BD)		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

National/Panasonic

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.

Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.

Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...

Section 4 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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SERVICE INFORMATION

1-1. HOW TO CHECK THE CRACKED CHIP PART

(1) Apply heat to the soldered portions of chip part using a soldering iron for about 2–3 seconds.
(2) If the chip part is faulty, it will be broken or cracked.

Caution: Do not leave soldering iron on the PCB too long as damage may occur to the PCB or the chip parts.

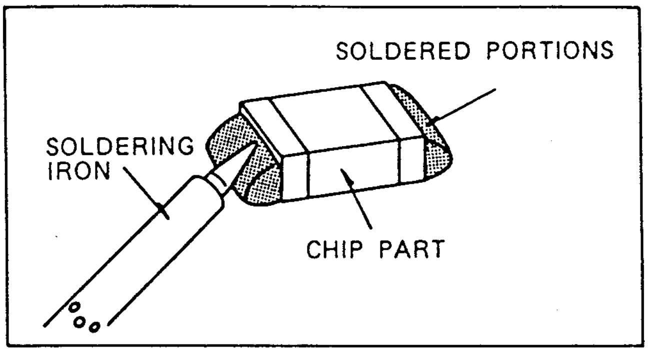

SOLDERED PORTIONS
SOLDERING IRON
CHIP PART

FIG. G1

Note: Regarding intermittent faults
The main causes of these faults are poor soldering and cracked chip parts.

1-2. HOW TO REPLACE THE CHIP PART

1) REMOVAL (RESISTOR, CAPACITOR, etc...)

(1) Presolder the one side of soldering portion for chip part and grasp the chip part by tweezers.

(2) Melt the presoldered portion. And then remove the chip part with a twisting motion while melting the soldering portion of another side quickly.

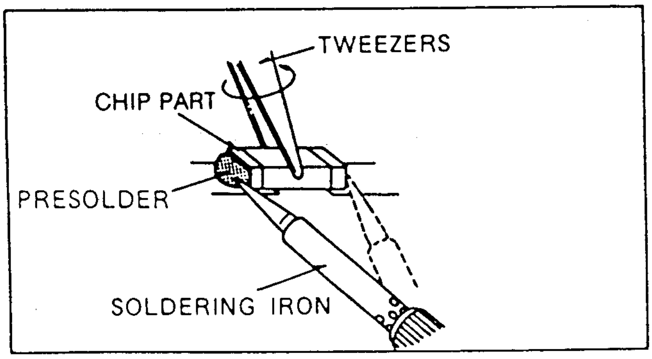

TWEEZERS
CHIP PART
PRESOLDER
SOLDERING IRON

FIG. G2

2) REMOVAL (transistor, diode, etc...)

(1) Grasp the chip part with tweezers and melt th solder of one lead.

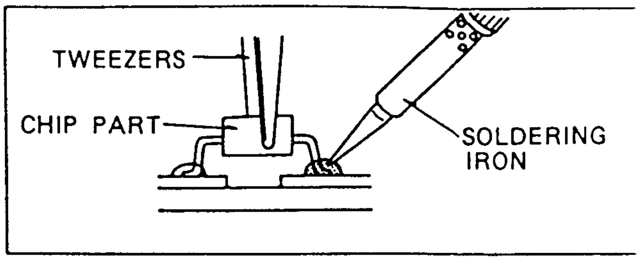

TWEEZERS
CHIP PART
SOLDERING IRON

FIG. G3

(2) Lift the side of that lead upward.

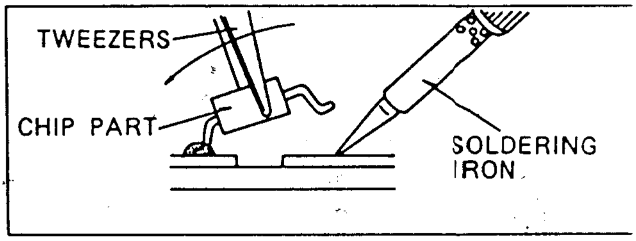

TWEEZERS
CHIP PART
SOLDERING IRON

FIG. G4

Caution: Do not lift the chip part too high damage may occur to the PCB or the lea that are still soldered on the PCB.

(3) Simultaneously heat the solder of the t remaining leads and lift part to remove.

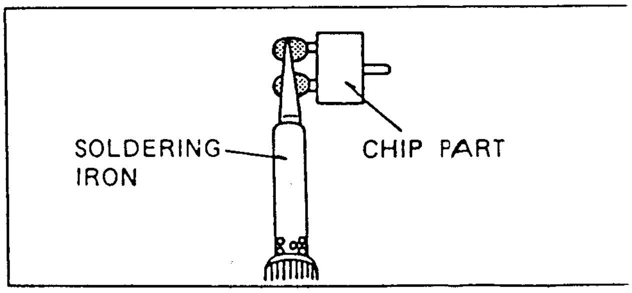

SOLDERING IRON
CHIP PART

FIG. G5

3) INSTALLATION

(1) Presolder the one side of contact point on t circuit board.

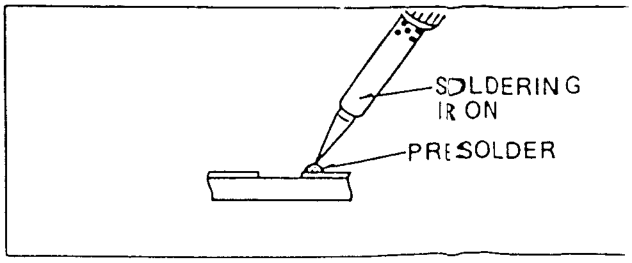

SOLDERING IRON
PRESOLDER

FIG. G6

(2) To install the chip part,hold in position using tweezers, apply heat to the pre-soldered portions using a fine tip soldering iron.
(3) Solder the other side of the chip part.
(4) Check your soldering.

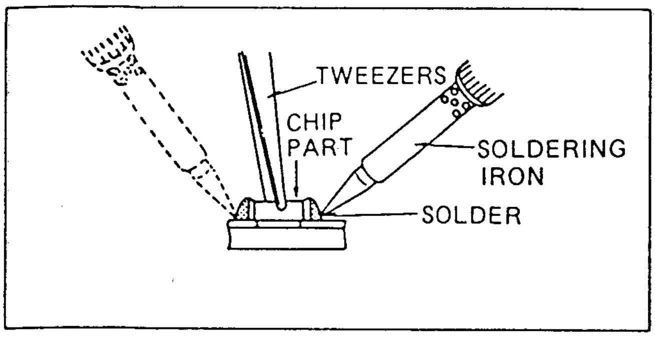

TWEEZERS
CHIP PART
SOLDERING IRON
SOLDER

FIG. G7

1-3. HOW TO REMOVE THE FLAT-IC

(WITH HOT-AIR FLAT-IC DESOLDERING MACHINE)

(FOR EXAMPLE)

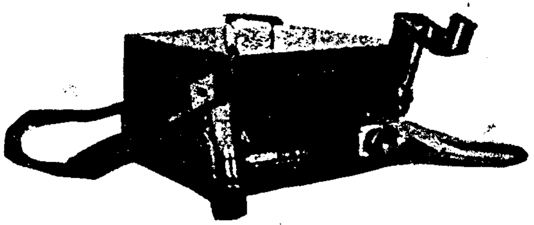


FIG. G8

(1) Prepare the HOT-AIR FLAT-IC DESOLDERING MACHINE. And then apply hot air to FLAT-IC about 5 ~ 8 seconds.

(2) Remove the FLAT-IC with tweezers while applying the hot air.

Caution: Do not supply the hot air to the chip parts around the Flat-IC for long time as as damage may occur to the chip parts around the Flat -IC.

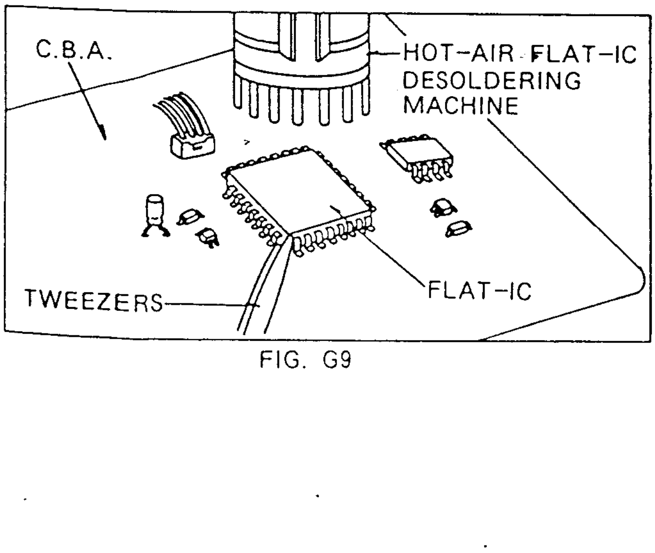

C.B.A.
HOT-AIR FLAT-IC DESOLDERING MACHINE
TWEEZERS
FLAT-IC

FIG. G9

(WITH SOLDERING IRON)

(1) Using solder braid remove the solder from all pins of the Flat-IC.
When you use the solder flux which is applied to all pins of the Flat-IC,you can remove it easily.

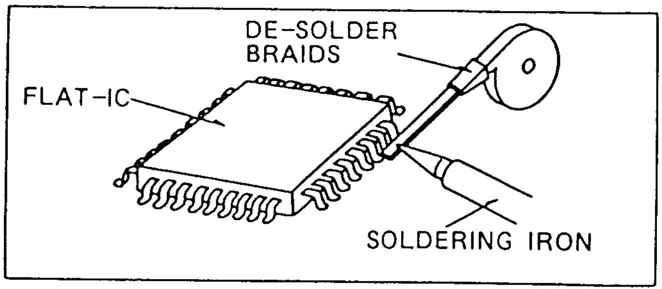

DE-SOLDER BRAIDS
FLAT-IC
SOLDERING IRON

FIG. G10

(2) Lift each lead of the Flat-IC upward one by one using a sharp pin or non solder wire(iron wire),while heating the pins using a fine tip soldering iron or a hot air blower.

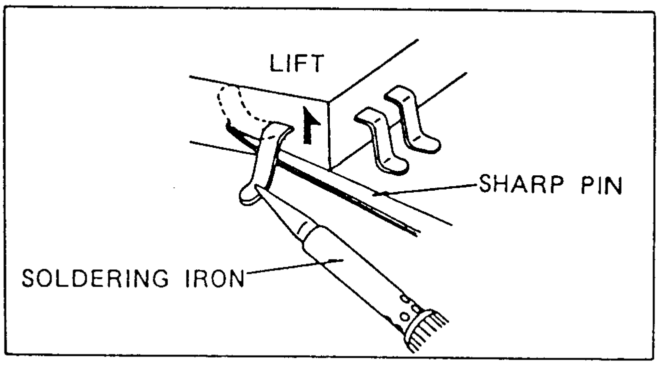

LIFT
SHARP PIN
SOLDERING IRON

FIG. G11

(WITH IRON WIRE)

(1) Affix the wire to workbench or solid mounting point as shown in FIG.G12.
(2) Pull up wire as the solder melts so as to lift the IC lead from the PCB contact pad,while heating the pins using a fine tip soldering iron or hot air blower.

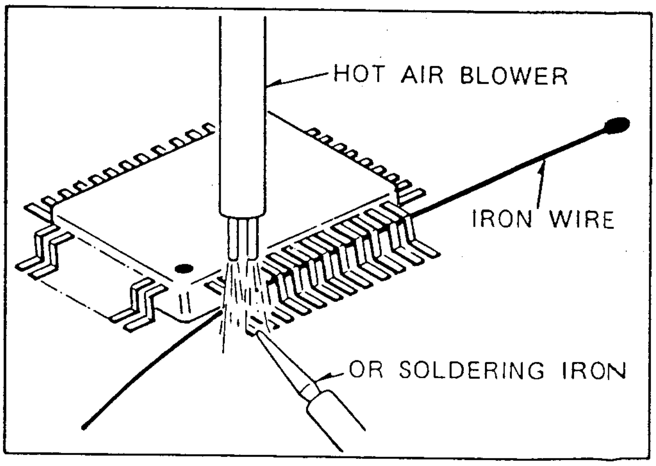

HOT AIR BLOWER
IRON WIRE
OR SOLDERING IRON

FIG.G12

Note: When using a soldering iron care must be taken to ensure that the Flat IC is not being held by glue before it is the PCB may be damaged if force is used.

SECTION 1
GENERAL DESCRIPTIONS

1-1. FEATURES

1. High-Response Mechanism. (G1-Revised)
   In order to achieve the quick operation. Dual-mode Loading Stop System is introduced on this G1-Revised Mechanism as G2 mechanism. (Microprocessor is also changed comparing with G1.) Response times are slightly increased as following table Fig.F1.

CHASSIS No.	G1	G1-REV.	G2
Scene access time from Cassette-IN (Sec.)	10	5.8	5.7
Scene access time from STOP 1 (Half-loading stop) (Sec.)	5.7	3.9	3.6
Scene access time from STOP 2 (Full-loading stop) (Sec.)	---	0.8	0.8
Scene access time from FF/REW (Sec.)	(F)7.6/(R)7.2	(F)4.6/(R)4.3	4.5
Mode switch time from PLAY to REVIEW (Sec.)	2.5	2.1	0.5
Mode switch time from PLAY to FF/REW (Sec.)	(F)9.2/(R)7.0	(F)8.2/(R)5.2	4.6
Mode switch time from STOP 1 to FF/REW (Sec.)	(F)3.3/(R)4.1	(F)3.3/(R)4.1	0.5
Mode switch time from PLAY to EJECT (Sec.)	8.8	5.9	6.3
CUE/REV SPEED (SP mode)	X7	X9	X9

Fig. F1 Mechanism Response Time
(Indicated times are approximately)

2. Auto Operation.
   Four convenient automatic playback operations can be activated simply by pressing a single button on the remotecontroller.
   1. Repeat Playback
   2. Memory Playback
   3. Sleep Playback
   4. Rewind Playback

   Moreover, another auto operation can be activated automatically.

   Auto Operation
   Auto VTR On
   When a cassette is inserted, the VTR turns itself on automatically.

   Auto Play
   When inserting a video cassette which has the erasure prevention tab removed playback will start automatically.

   Auto Rewind
   When the tape reaches its end during recording (except OTR and timer recording) or playback, it will automatically be rewound to the beginning.

   VTR-Off Eject
   When the VTR is off, the inserted cassette can be ejected simply by pressing the Eject Button, and VTR will automatically turn itself off again.

   Auto Head Cleaning Function
   This VTR features a special function that automatically removes tape particles and dust from the video heads to ensure continuously superior picture quality. While the Head Cleaning Function is working, some noise may be reproduced. However, this is no malfunction.

3. Another Functions.
   1. VHS Index Search System
   2. Intro Scan Function
   3. Time Search Function.

1-2. INITIALIZATION OF CHANNEL MEMORY IC (IC7502/M6M80021P)

When replace the channel memory IC (IC7502/M6M80021P), the memory IC should be initialized to keep formal specification.

Note:

1) It should be performed before tuner preset.
2) During initialization or after initialization within 1 second, do not stop the power source. (Do not disconnect AC cord.)
3) Meaning of "INITIALIZATION" is to erase the "SKIP CH". In another to say the number of POSITION CH and DISPLAY CH to be same.

Method:

1) Press the CH UP/DOWN Button so that the Channel indicator indicates "– –"
2) Connect the Diode (MA165) to Pin 54 of IC7501 for Anode, Pin 35 of IC7501 for Cathode approximately 1 second.
3) Channel indication disappears, and approximately 3 seconds later Channel indicator indicates "1".

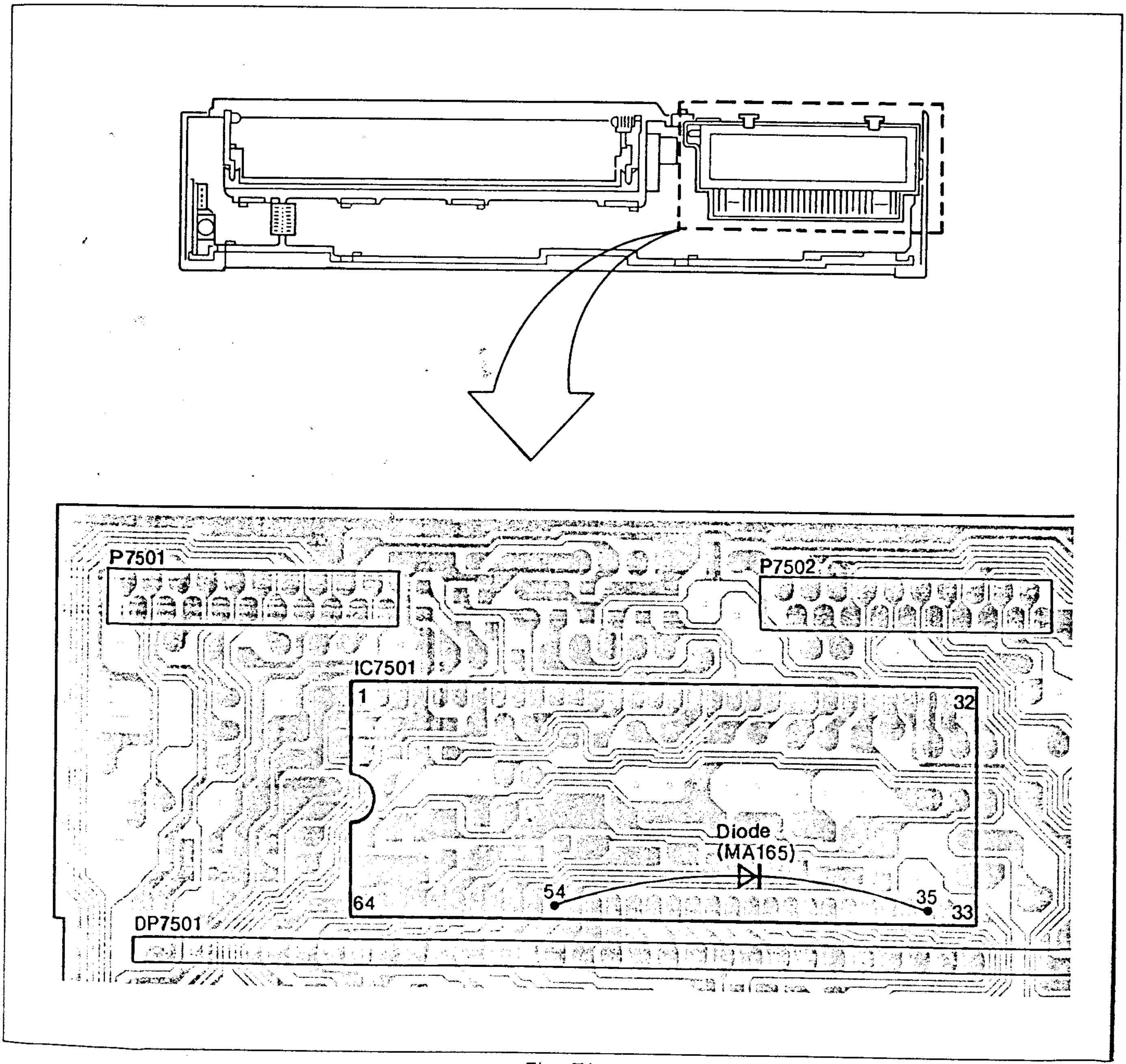


Fig. T1

SERVICE INFORMATION DISPLAY

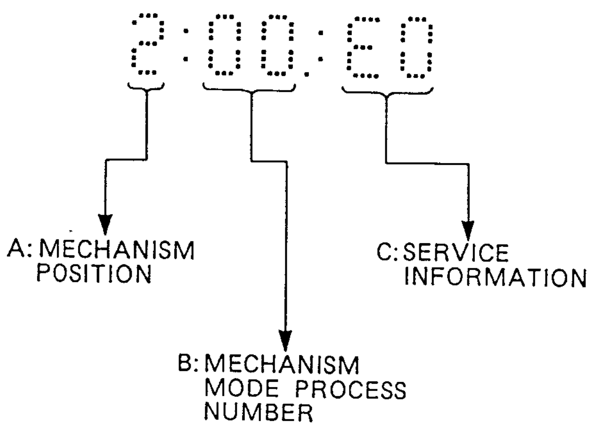
This unit can be confirmed the mode information which is detected by microprocessor IC6001 via multi function display.

Method:

1) Press "EJECT", "FF" and "REW" keys at the same time.
2) The counter of multi function display indicates microprocessor data approximately 20 seconds as shown in Fig.T2.

NOTE:

1) This mode can be entred Power off.
2) Also it can be displayed the data when connect jumper wire between TPSERV and TPGND2. In this case the data is indicated still open the TPSERV.


2:00:E0
A: MECHANISM POSITION
B: MECHANISM MODE PROCESS NUMBER
C: SERVICE INFORMATION

A: MECHANISM POSITION

2: EJECT
3: :
4: STOP 1
5: :
6: STOP 2
7: :
8: PLAY
9: :
U: REV

B: MECHANISM MODE PROCESS NUMBER
Number is changed by depending on mode movement.

C: SERVICE INFORMATION

E0.....	Normal.
E1.....	Cylinder lock. (STOP)
E2.....	Reel lock. (STOP)
E4.....	Mechanism lock during unloading.
E5.....	Mehcanism lock during mode transfer to FF or REW.
E6.....	Mechanism lock during front unloading. (Cassette out)
E9.....	Serial data (IC6001–IC7501) can not be transmitted.

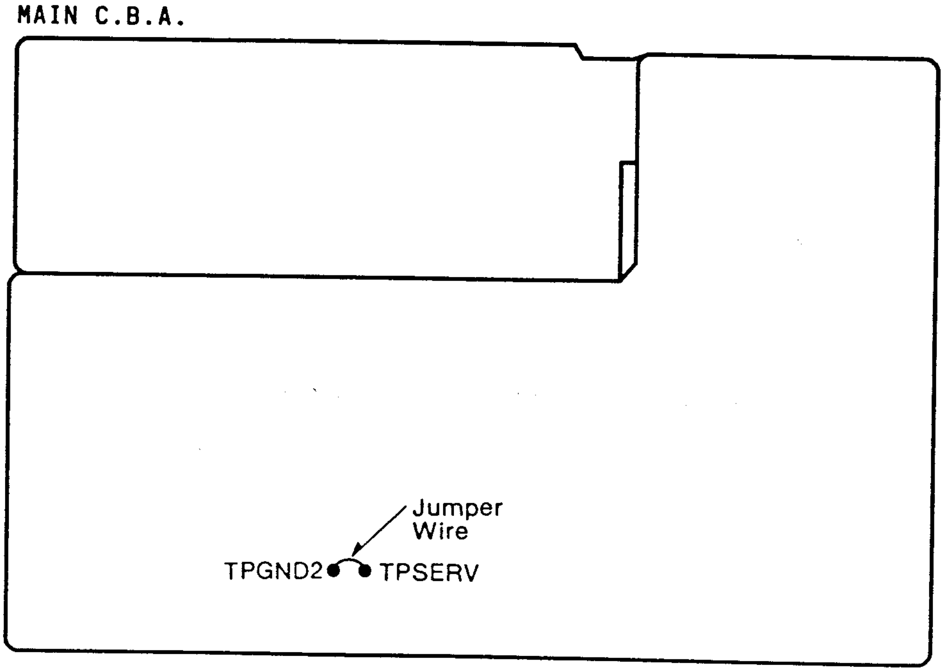
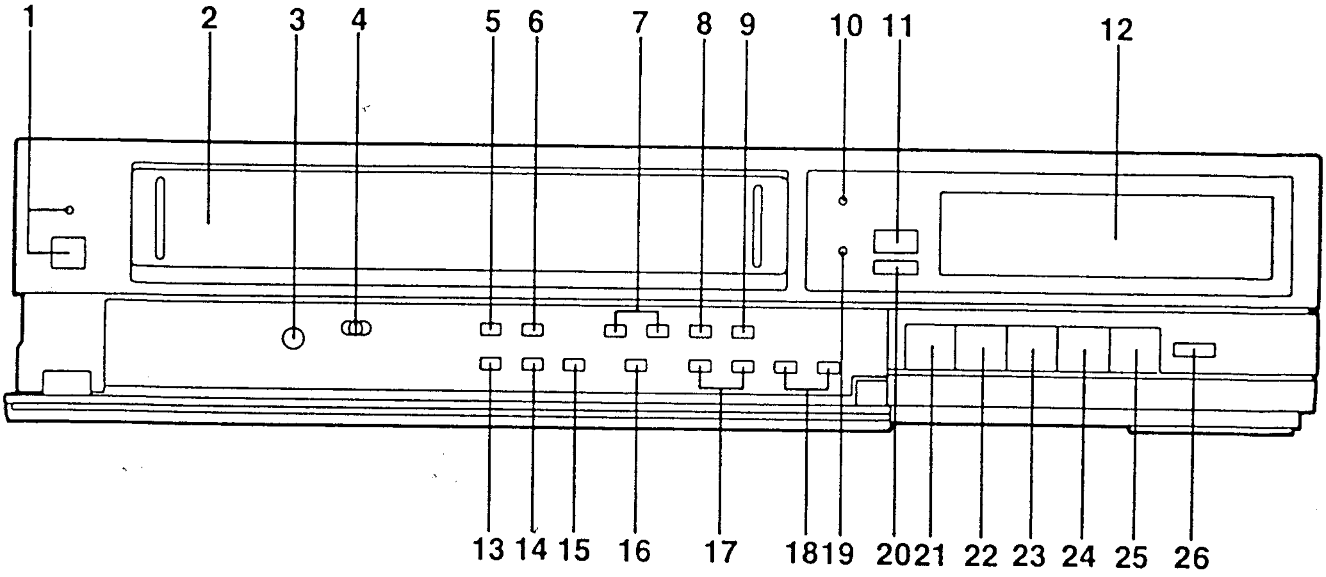

MAIN C.B.A.
Jumper Wire
TPGND2
TPSERV

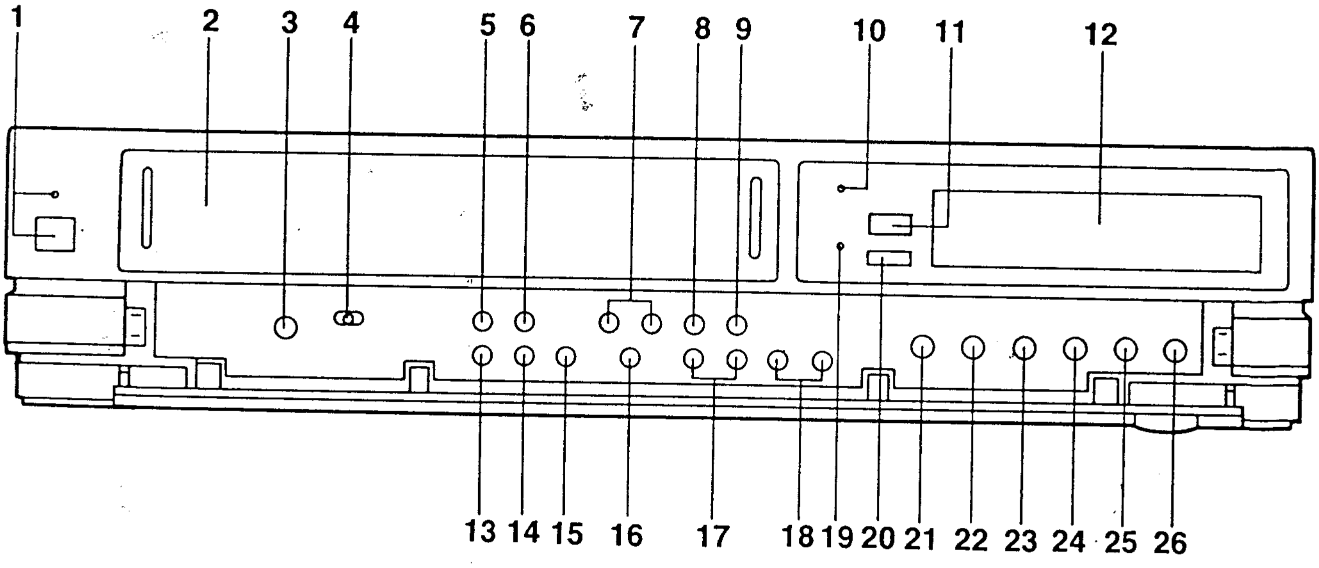
Fig. T2

1-3. CONTROLS AND COMPONENTS

FRONT (NV-J11AM/BA/BD/EN)



FRONT (NV-J40EE)



1 VTR On/Off Switch with Indicator

2 Cassette Compartment

3 Picture Sharpness Control

4 Noise Filter/Edit Selector

EDIT ON: For editing operations such as dubbing.
OFF: For ordinary use of the VTR.
NOISE FILTER ON: For playback of tapes with inferior picture quality caused, for example, by repeated dubbing.

- When the Noise Filter/Edit Selector is set to "EDIT ON", the picture sharpness cannot be adjusted with the Picture Sharpness Control.

5 Clock Button

6 Programme/Check Button

7 Tracking/V-Lock "+" and "−" Buttons

Digital Tracking

When playback is started after inserting a cassette, and the VTR is turned on, the Digital Tracking function will be activated automatically, the Digital Tracking Indicator will flash for several seconds, and the tracking will be adjusted automatically (after the adjustment, the Digital Tracking Indicator will remain lit).

- During playback, the Digital Tracking function will be activated whenever the playback changes over from an unrecorded part to a recorded part, provided the recorded part is longer than 4 seconds.

- When the picture is distorted by noise bars, press the Tracking "+" or "−" Button to select manual tracking and adjust with these two buttons. The Digital Tracking Indicator goes out.
To change back to Digital Tracking, press the Tracking "+" and "−" Buttons simultaneously.

Vertical Lock Adjustment

If vertical jitter occurs, adjust with the V-Lock "+" or "–" Button during Still playback.

- When the AC Mains Lead is unplugged or a power failure occurs, perform the vertical lock adjustment again.

8 Timer Record Button

9 PAL/MESECAM Selector (NV-J11AM/BD, J40EE)

This selector should be set according to the colour TV system used during recording and playback.

During Recording

• PAL:	When receiving PAL signals
• MESECAM:	When receiving SECAM signals

During Playback

• PAL:	When playing back a tape recorded in the PAL system
• MESECAM:	When playing back a tape recorded in the MESECAM system

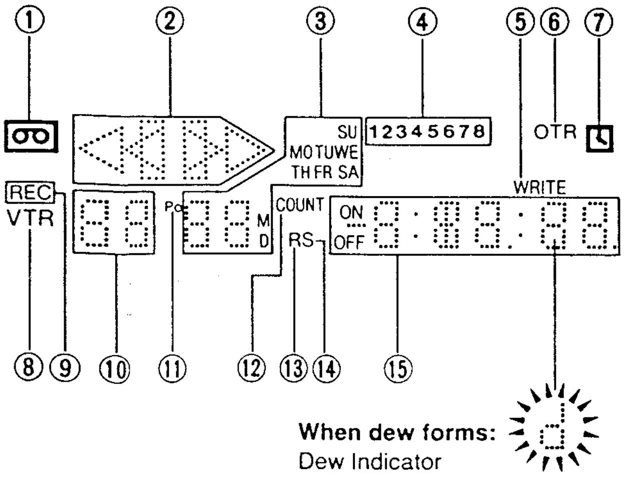
9 VTR/TV Selector (NV-J11EN)

10 Digital Tracking Indicator

11 Infra-red Remote Control Receiver

12 Multi-Function Display

Multi-Function Display



When dew forms:
Dew Indicator

① Cassette-in Indicator

② Tape Running Display

③ Date Display

④ Timer Programme Number

⑤ Write Indicator

⑥ OTR Indicator

⑦ Timer Recording Indicator

⑧ VTR Indicator (NV-J11EN)

⑨ Recording Indicator

⑩ Channel Display

⑪ Position Indicator

⑫ Counter Mode Indicator

⑬ Repeat Indicator (NV-J11BA, J40EE)

⑭ Search Indicator (NV-J11BA, J40EE)

⑮ Clock/Counter Indicator

13 Preset/Fine/Normal Button

14 Band/AFC Button

15 Clear Button

16 Next Button

17 Channel Selection Up and Down Buttons

18 OTR Off Buttons

19 MESECAM Indicator (NV-J11AM/BD)

19 PAL Indicator (NV-J40EE)

20 Eject Button (⏏)

21 Rewind ◀◀/Review ⇤ Button

22 Play Button (▶)

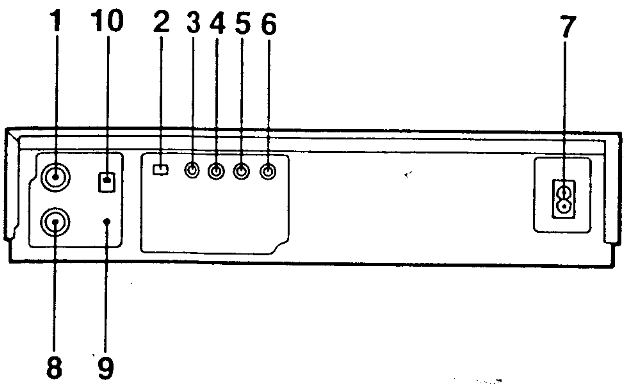
23 Fast Forward ▶▶/Cue ⇥ Button

24 Stop Button (■)

25 Pause/Still Button (❚❚)

26 Record Button

REAR


1
10
2
3
4
5
6
7
8
9

1 RF Output Socket

2 Test Signal Switch

3 Audio Input Socket

4 Video Input Socket

5 Audio Output Socket

6 Video Output Socket

7 AC Mains Lead Socket

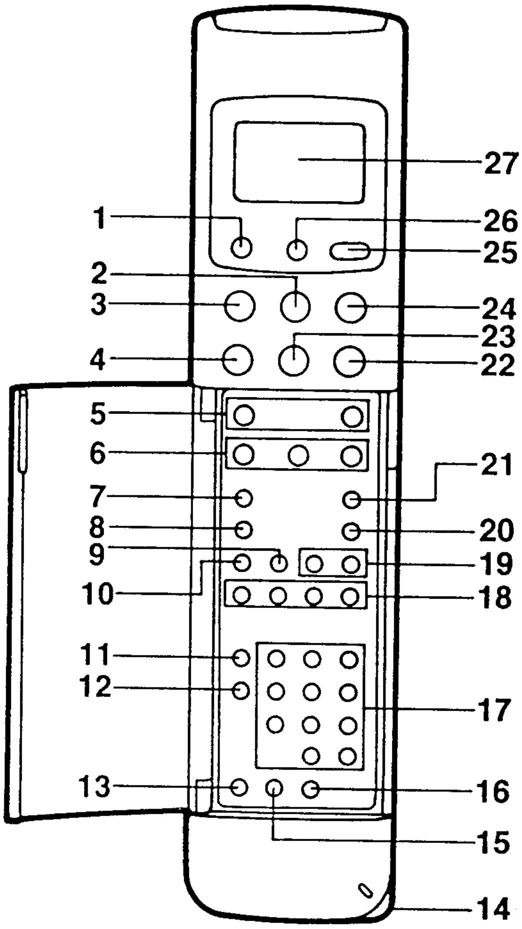
8 RF Input Socket

9 Video Playback Channel Adjustor (NV-J11EN)

10 Video Playback Channel Selector (NV-J11AM/BA/BD, J40EE)

1-4. INFRA-RED REMOTE CONTROLLER

(NV-J11BA, J40EE)


27
1
26
25
2
3
24
23
22
4
5
6
21
7
20
8
9
19
10
18
11
12
17
13
16
15
14

1 VTR On/Off Button

2 Stop Button (■)

3 Pause/Still Button (❚❚)

4 Rewind ◀◀/Review ⇤ Button

5 Record Buttons

6 Slow Buttons

7 Clock/Counter Selector

8 Monitor Button

9 Time Search Button

10 Index Button

11 Programme Button

12 Next Button

13 Timer Record Button

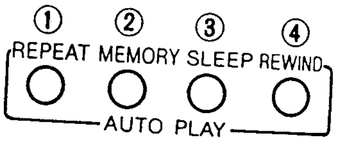
14 Bar Code Reading Section

15 Clear Button

16 PAL/MESECAM Selector (NV-J40EE)

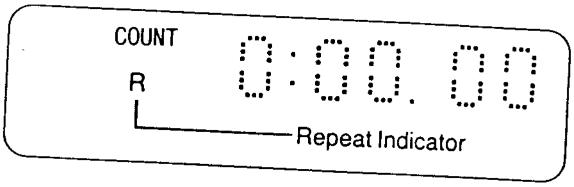
17 Programme Position (Channel) Selector Buttons

18 Auto Play Buttons

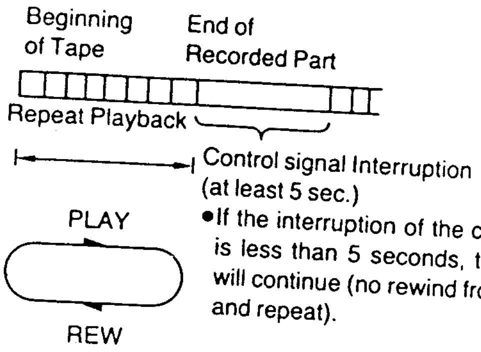

①
②
③
④
REPEAT
MEMORY
SLEEP
REWIND
AUTO PLAY

① Repeat Playback

When the Repeat Button is pressed, the "R" Indication will light up in the Multi-Function Display on the VTR and playback will start. When the tape reaches the end of its recorded portion, it will automatically be rewound to the beginning and playback will then start again. This process will be performed repeatedly.


COUNT
R
0:00.00
Repeat Indicator

- The playback will continue until the VTR detects the end of the video recording (no control signal for more than 5 seconds). At this point, the tape will be rewound to the beginning and the playback will be repeated.


Beginning of Tape
End of Recorded Part
Repeat Playback
Control signal Interruption (at least 5 sec.)
PLAY
REW

- If the interruption of the control signal is less than 5 seconds, the playback will continue (no rewind from this point and repeat).

To stop the Repeat Playback, press the Stop Button.

Note:

If a short tape portion is played back many times, the tape may become damaged at that part.

② Memory Playback

When the Memory Button is pressed while the VTR is in the Stop mode, the tape is then fast-forwarded or rewour and it will be stopped at the tape counter position "0:00.00", and playback will then start from that position.

③ Sleep Playback

When the Sleep Button is pressed, playback will start. A soon as the tape reaches its end, it will be automatically rewound to the beginning, and the VTR will then turn itsel off.

④ Rewind Playback

When the Rewind Button is pressed, the tape will be rewound. As soon as the beginning of the tape is reached, playback will start automatically.

19 Tracking/V-Lock "+" and "–" Buttons

20 Input Signal Selector

21 Reset Button

22 Fast Forward ▶▶/Cue ⏩ Button

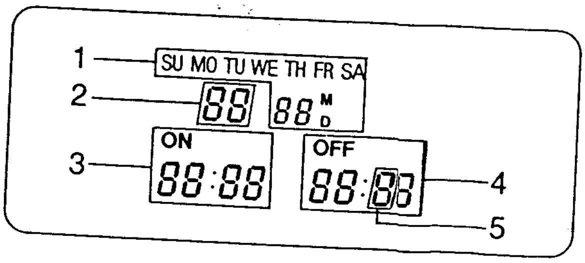
23 Play Button (▶)

24 Still Advance Button (II▶)

25 Transmit Button

26 Digital Scanner On/Off Button

27 Display


1
2
3
4
5
SU MO TU WE TH FR SA
88 88 M D
ON
88:88
OFF
88:88

1 Date Display
2 Channel Display
3 Start Time Display
4 End Time Display
5 Check Indicator

Power Source for the Remote Controller

- The Remote Controller is powered by 2 IEC "R6" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT

- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

> - Treat the Programming Sheet with care. If the sheet gets dirty or scratched, the bar code reading may become impossible.
> - Protect the Remote Controller from strong shocks and vibration. Keep it away from water and places with high temperature and humidity.
> - If the bar code is traced slowly, it cannot be read correctly.
> - When there is no "Beep" sound, the reading of the bar code is incomplete. Trace the bar code again.
> - When using the Programming Sheet, put it on flat surface: Reading the bar codes while holding it in your hand or bending it, may result in incorrect operation.
> - Do not deviate from the bar code, nor stop tracing halfway.

Note:

- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver in the VTR is about 30° for each side from the centre.
- The unit should be used within a range of about 7 meters from the front of the VTR.

Recommendation

After the programming of timer recording(s) is completed, press the Digital Scanner On/Off Button so that the indications in the Display disappear, in order to save battery power.

When the Bar Codes Cannot be Read

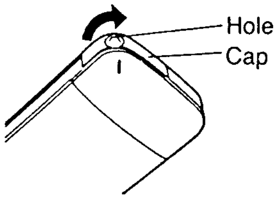
Although the lamp in the tip of the Bar Code Reading Section lights up:

- No figures appear in the Display
- No beep sounds is heard;

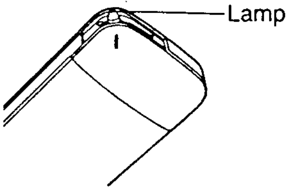
The tip of the Bar Code Reading Section is probably clogged with dirt.

Cleaning

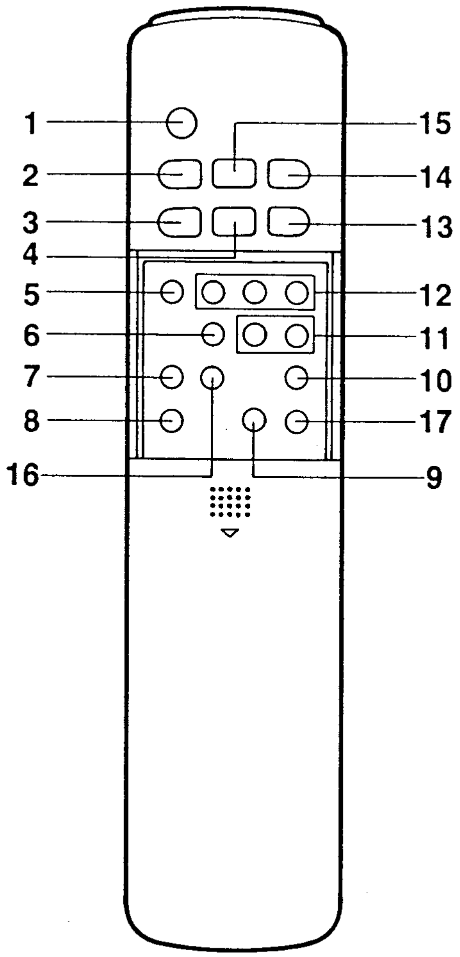
1 Remove the cap of the Bar Code Reading Section.
  - Remove dirt and dust from the hole of the cap.



2 Gently wipe the tip of the lamp with a soft cloth.
  - Reattach the cap by inserting it until it locks with a click.



(NV-J11AM/EN/BD)



1 VTR On/Off Button

2 Pause/Still Button (II)

3 Rewind ◀◀/Review ⊟ Button

4 Play Button (▶)

5 Record Buttons

6 VTR/TV Selector (NV-J11EN)

7 Input Signal Selector

8 Clock/Counter Selector

9 Reset Button

10 Monitor Button

Monitoring Function

When the Monitor Button is kept pressed during Playback or Still playback, the broadcast picture of the selected programme position (channel) or input signal through Audio/Video input socket will be displayed. When this button is released, the picture will change back to the playback picture of the tape.

11 Channel Selection Up and Down Buttons

12 Slow Buttons

13 Fast Forward ▶▶/Cue ⊟ Button

14 Still Advance Button (II▶)

15 Stop Button (■)

16 Memory Playback Button (NV-J11AM/BD)

17 PAL/MESECAM Selector (NV-J11AM/BD)

Power Source for the Remote Controller

■ The Remote Controller is powered by 2 IEC "R6" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT

- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

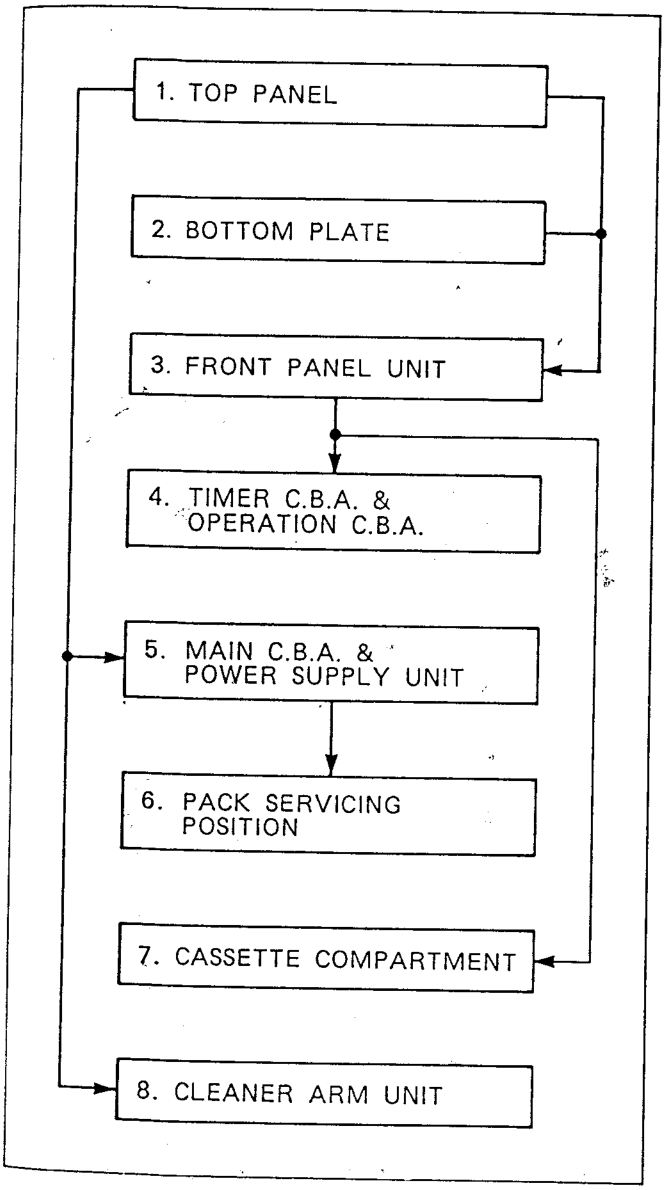

1. TOP PANEL
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. TIMER C.B.A. & OPERATION C.B.A.
5. MAIN C.B.A. & POWER SUPPLY UNIT
6. PACK SERVICING POSITION
7. CASSETTE COMPARTMENT
8. CLEANER ARM UNIT

Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove ... 4 Screws (A)

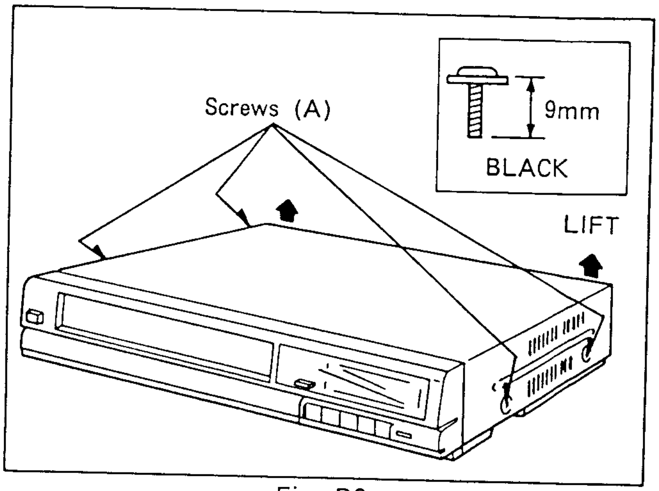

Screws (A)
9mm
BLACK
LIFT

Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove ... 7 Screws (B)

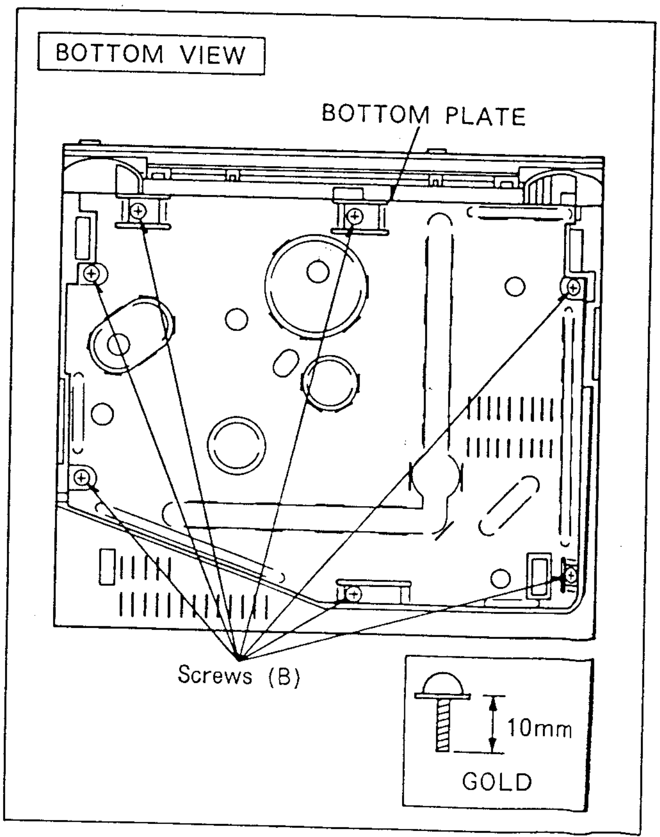

BOTTOM VIEW
BOTTOM PLATE
Screws (B)
10mm
GOLD

Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove ... Screw (C)
Unlock ... 6 Tabs (D)

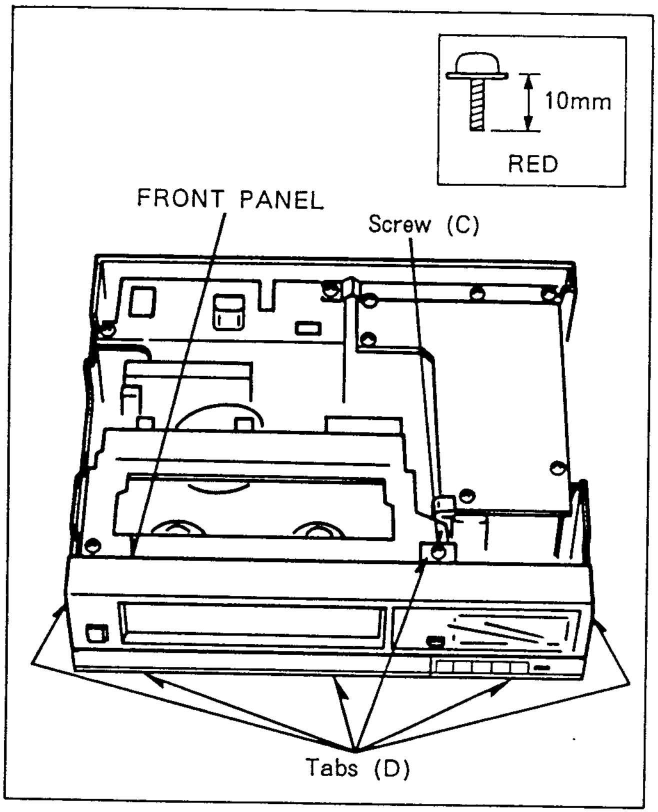

10mm
RED
FRONT PANEL
Screw (C)
Tabs (D)

Fig. D4

4. REMOVAL OF THE TIMER C.B.A. & OPERATION C.B.A.

REMOVAL OF THE TIMER C.B.A.

Disconnect ... Bridge Connector (E)
Unlock ... 7 Tabs (F)

REMOVAL OF THE OPERATION C.B.A.

Disconnect ... Bridge Connector (E)
Unlock ... 2 Tabs (G)

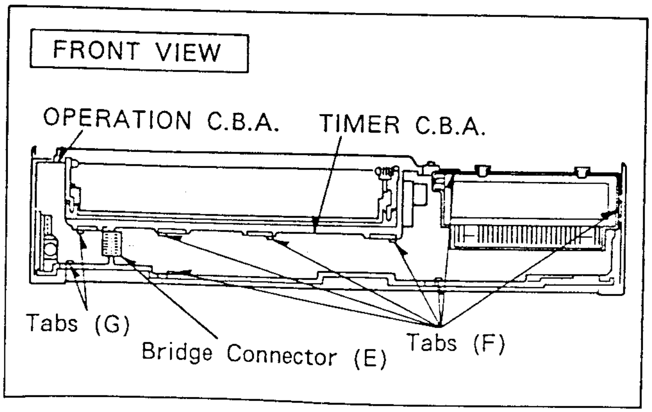

FRONT VIEW
OPERATION C.B.A.
TIMER C.B.A.
Tabs (G)
Bridge Connector (E)
Tabs (F)

Fig. D5

5. REMOVAL OF THE MAIN C.B.A. & POWER SUPPLY UNIT

REMOVAL OF MAIN C.B.A.

Remove ... Screw (H)
Remove ... 3 Screws (J)
Remove ... 2 Screws (K)

REMOVAL OF THE POWER SUPPLY UNIT

Remove ... Screw (H)
Remove ... Screw (L)
Remove ... 2 Screws (M)

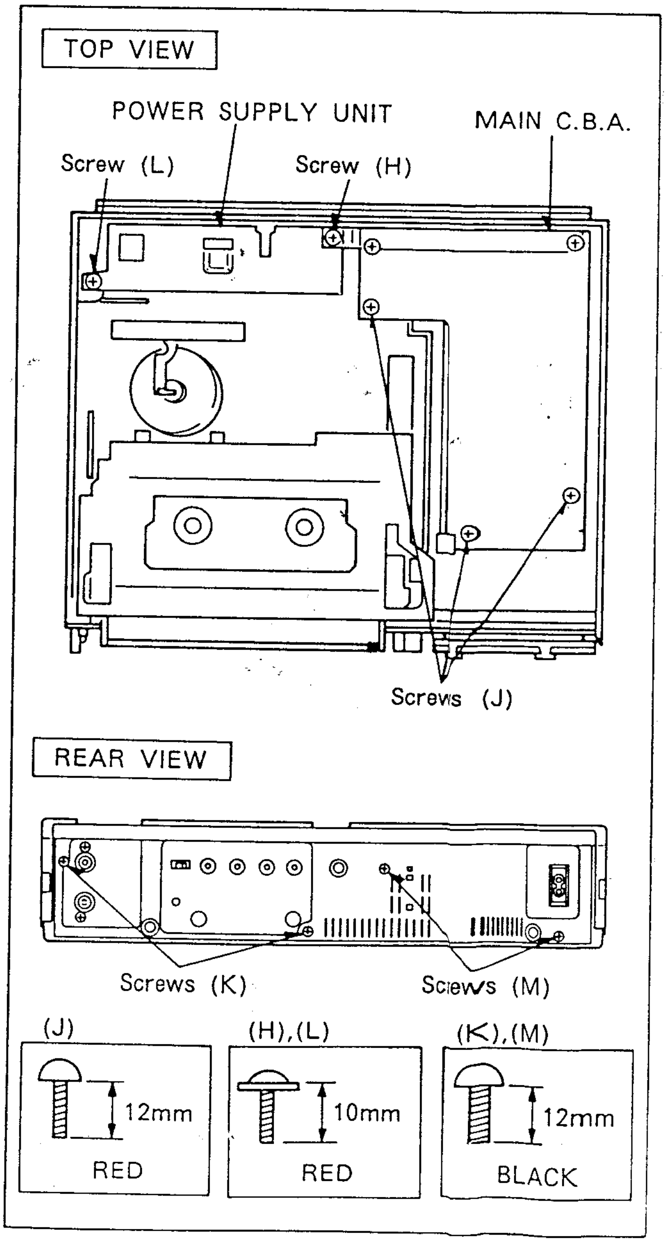

TOP VIEW
POWER SUPPLY UNIT
MAIN C.B.A.
Screw (L)
Screw (H)
Screws (J)
REAR VIEW
Screws (K)
Screws (M)
(J)
12mm
RED
(H),(L)
10mm
RED
(K),(M)
12mm
BLACK

Fig. D6

6. PACK SERVICING POSITION

CAUTION:
Confirm that the isolation between Mech Chassis and Main C.B.A. before connecting AC.

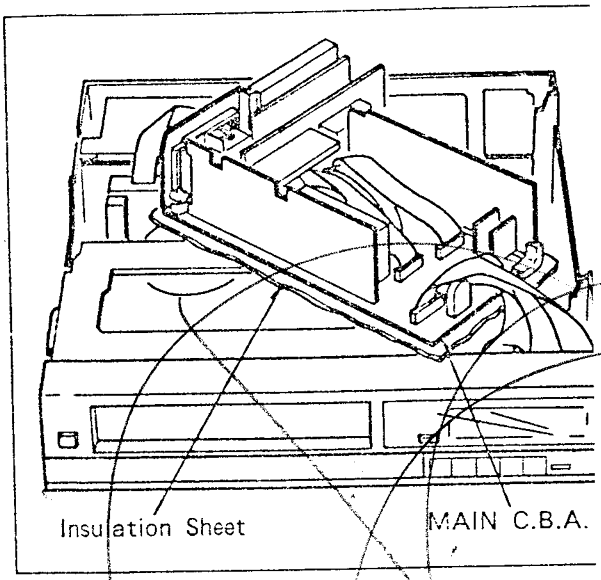

Insulation Sheet
MAIN C.B.A.

Fig. D7

7. REMOVAL OF THE CASSETTE COMPARTI

Remove the 2 screws (N) and for screw (S).
Slide the cassette holder unit for appear
screws (O) by turning (clockwise) the C
Rotor Unit (located in the bottom side as sh
Fig.D9) and remove the 2 screws (O).
Remove the wire cable from connector P1508 m
on Take-up Photo Tr. C.B.A., then carefull
out the Cassette Compartment.

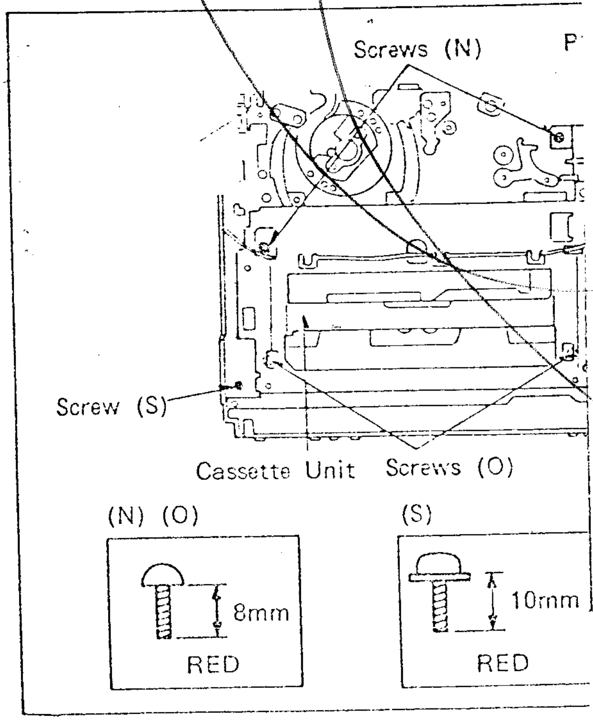

Screws (N)
P
Screw (S)
Cassette Unit
Screws (O)
(N) (O)
8mm
RED
(S)
10mm
RED

Fig. D8

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The Mechanical Chassis of these model NV-J40EE, NV-J11AM/BA/BD/EN are the same as G1 (G-Rev.) Mechanical Chassis.
Therefore please refer to the Service Manual G1 (G-Rev.) Mechanical Chassis (Order No.VRD8901M101).

2-2-1. TAPE INTERCHANGEABILITY ADJUSTMENT

CAUTIONS:
Make a Adjustment Mode as shown in Fig. M1 (Connect a Cut Jumper. Wire.)

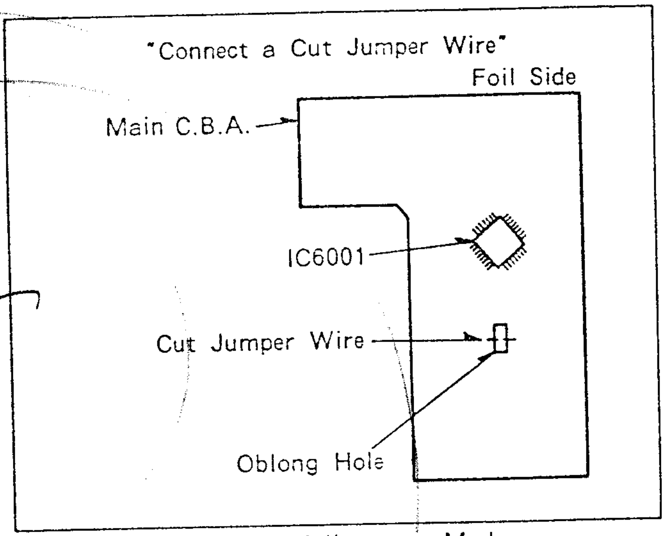

"Connect a Cut Jumper Wire"
Foil Side
Main C.B.A.
IC6001
Cut Jumper Wire
Oblong Hole

Fig. M1 Adjustment Mode

6. PACK SERVICING POSITION

CAUTION:
Confirm that the isolation between Mechanical Chassis and Main C.B.A. before connecting Main AC.

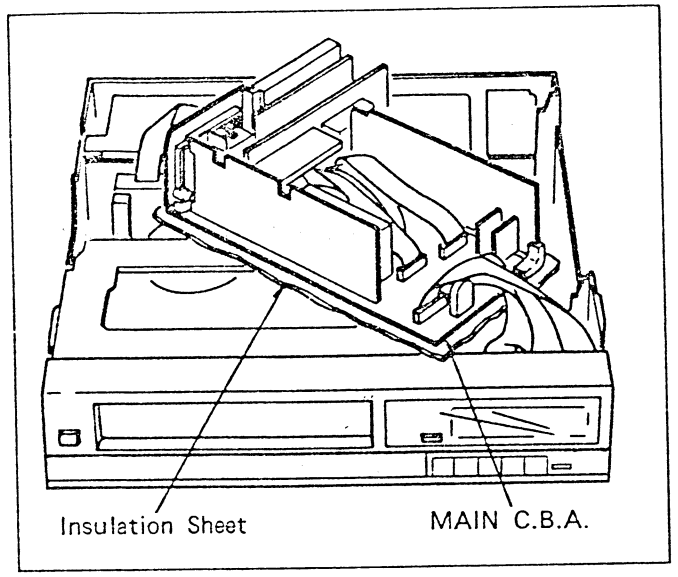

Insulation Sheet
MAIN C.B.A.

Fig. D7

7. REMOVAL OF THE CASSETTE COMPARTMENT

Remove the 2 screws (N) and for screw (S).
Slide the cassette holder unit for appearing 2 screws (O) by turning (clockwise) the Capstan Rotor Unit (located in the bottom side as shown in Fig.D9) and remove the 2 screws (O).
Remove the wire cable from connector P1508 mounted on Take-up Photo Tr. C.B.A., then carefully pull out the Cassette Compartment.

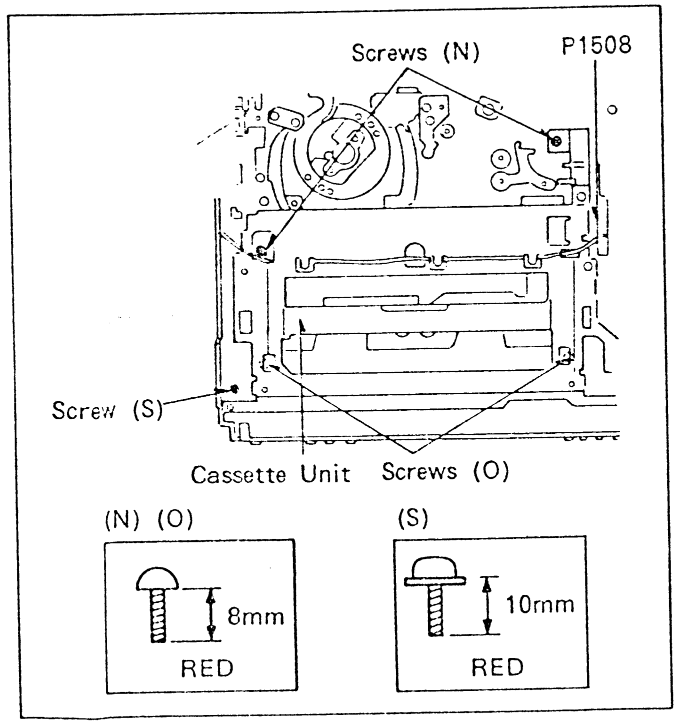

Screws (N)
P1508
Screw (S)
Cassette Unit
Screws (O)
(N) (O)
8mm
RED
(S)
10mm
RED

Fig. D8

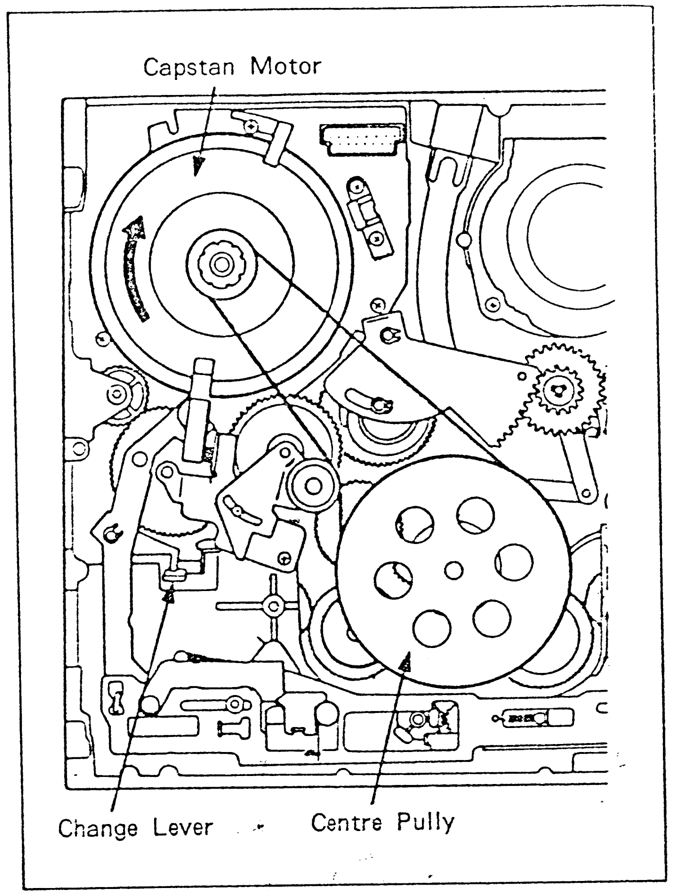

Capstan Motor
Change Lever
Centre Pully

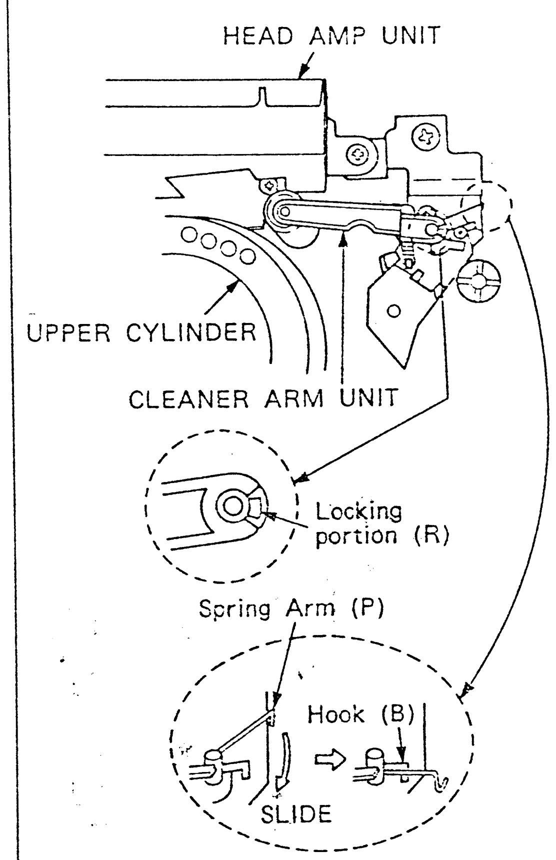
Fig. D9

NOTE:
When reinstalling the Cassette compartment, mechanical adjustment (alignment) must be performed for correct working. Refer to Service Manual. (G1 (G-Rev.) mechanical chassis) (Order No. VRD8901M101).

8. REMOVAL OF CLEANER ARM UNIT

1. Hook the Spring Arm (P) to lower side of Hook (Q).
2. Unlock the locking portion (R) and then remove the Cleaner Arm Unit.

NOTE:
(1) Perform the steps in the reverse order when Assembling.
(2) When replacing Upper Cylinder, replace Creaner Arm at the same time.


HEAD AMP UNIT
UPPER CYLINDER
CLEANER ARM UNIT
Locking portion (R)
Spring Arm (P)
Hook (B)
SLIDE

When reinsertion Cleaner Arm Unit, Spring Arms should be fixed as follows.

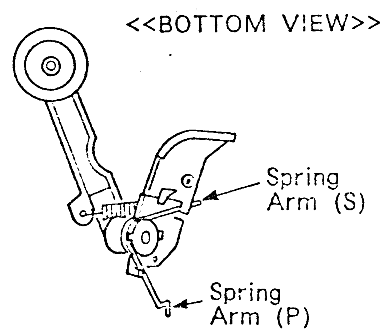

<<BOTTOM VIEW>>
Spring Arm (S)
Spring Arm (P)

Fig. D10

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The Mechanical Chassis of these model NV-J40EE, NV-J11AM/BA/BD/EN are the same as G1 (G-Rev.) Mechanical Chassis.
Therefore please refer to the Service Manual G1 (G-Rev.) Mechanical Chassis (Order No.VRD8901M101).

2-2-1. TAPE INTERCHANGEABILITY ADJUSTMENT

CAUTIONS:
Make a Adjustment Mode as shown in Fig. M1. (Connect a Cut Jumper. Wire.)

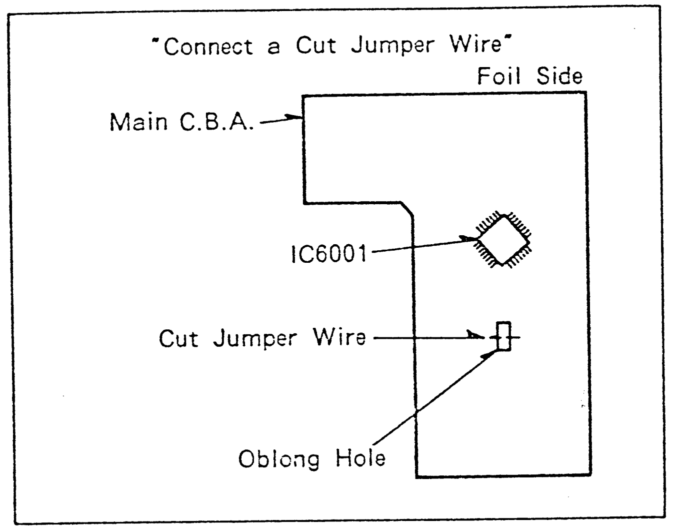
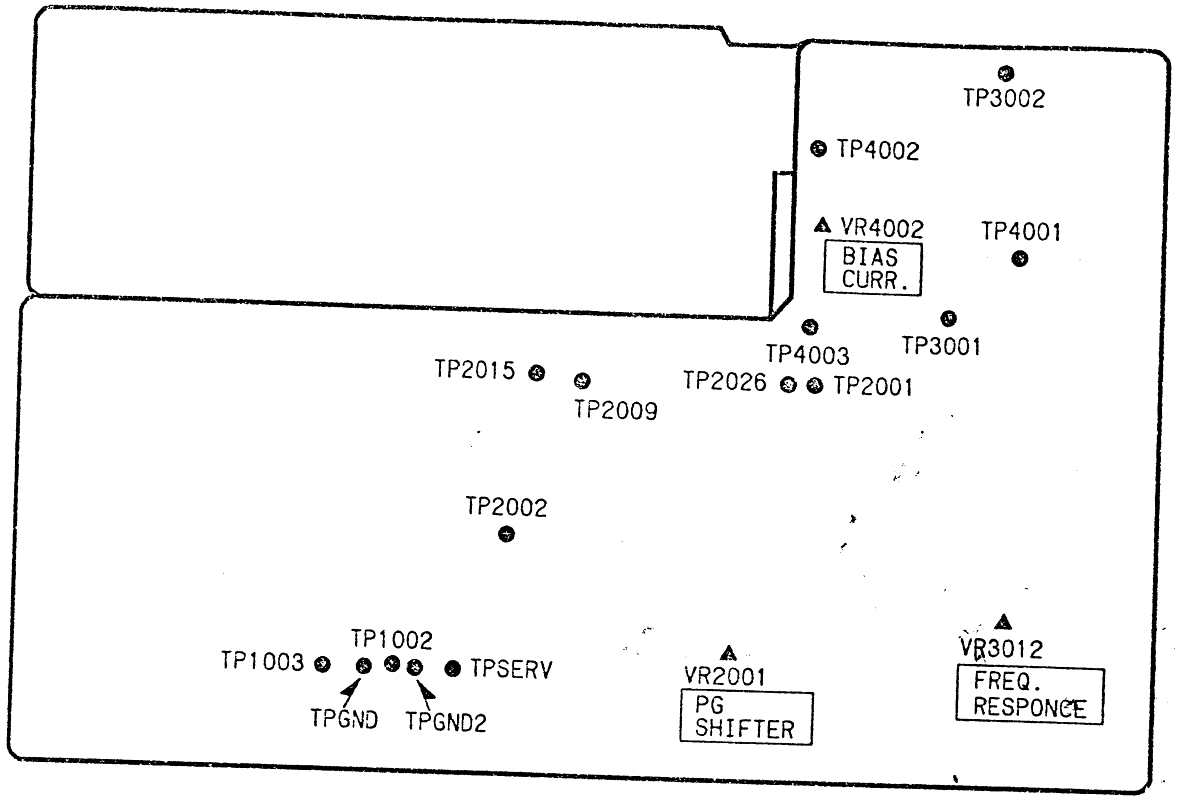

"Connect a Cut Jumper Wire"
Foil Side
Main C.B.A.
IC6001
Cut Jumper Wire
Oblong Hole

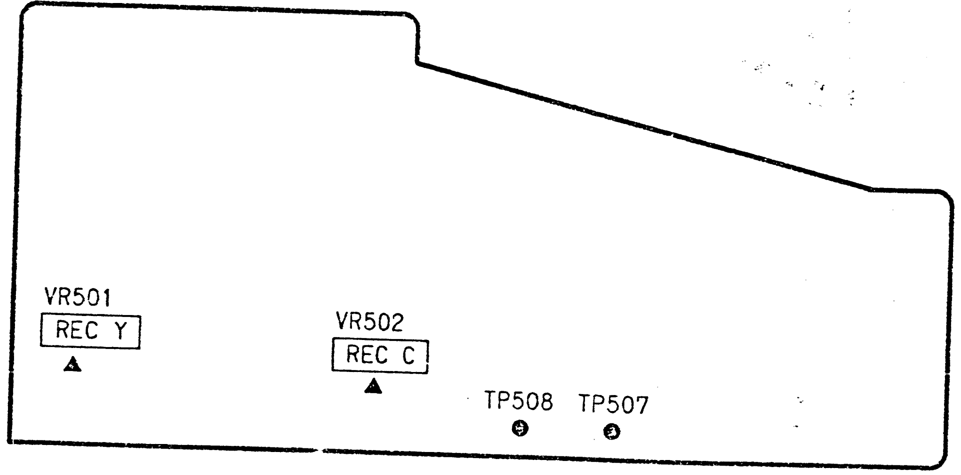
Fig. M1 Adjustment Mode

LOCATION OF TEST POINTS & CONTROLS

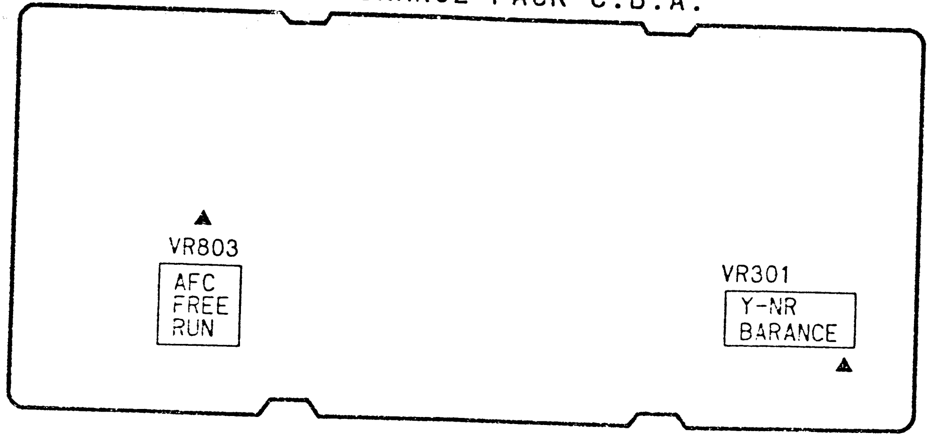
MAIN C.B.A.


TP3002
TP4002
VR4002
BIAS CURR.
TP4001
TP4003
TP3001
TP2015
TP2009
TP2026
TP2001
TP2002
TP1002
TP1003
TPSERV
TPGND
TPGND2
VR2001
PG SHIFTER
VR3012
FREQ. RESPONCE

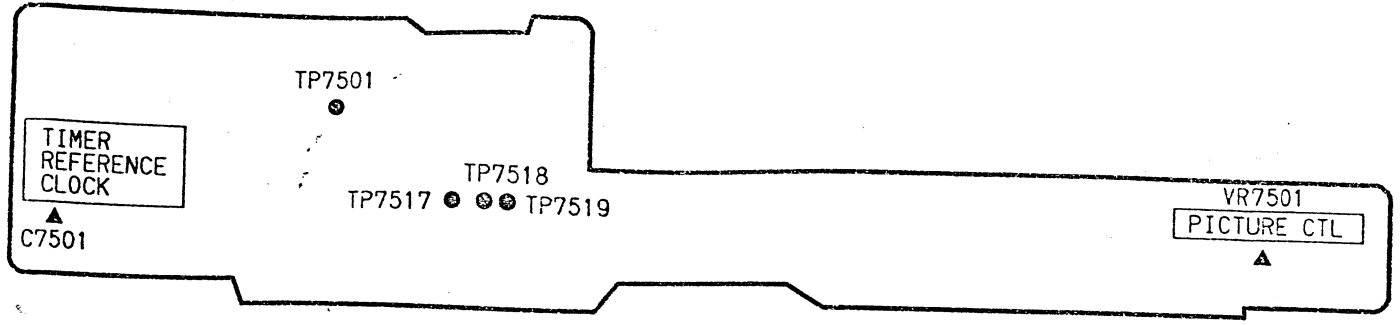
HEAD AMP C.B.A.


VR501
REC Y
VR502
REC C
TP508
TP507

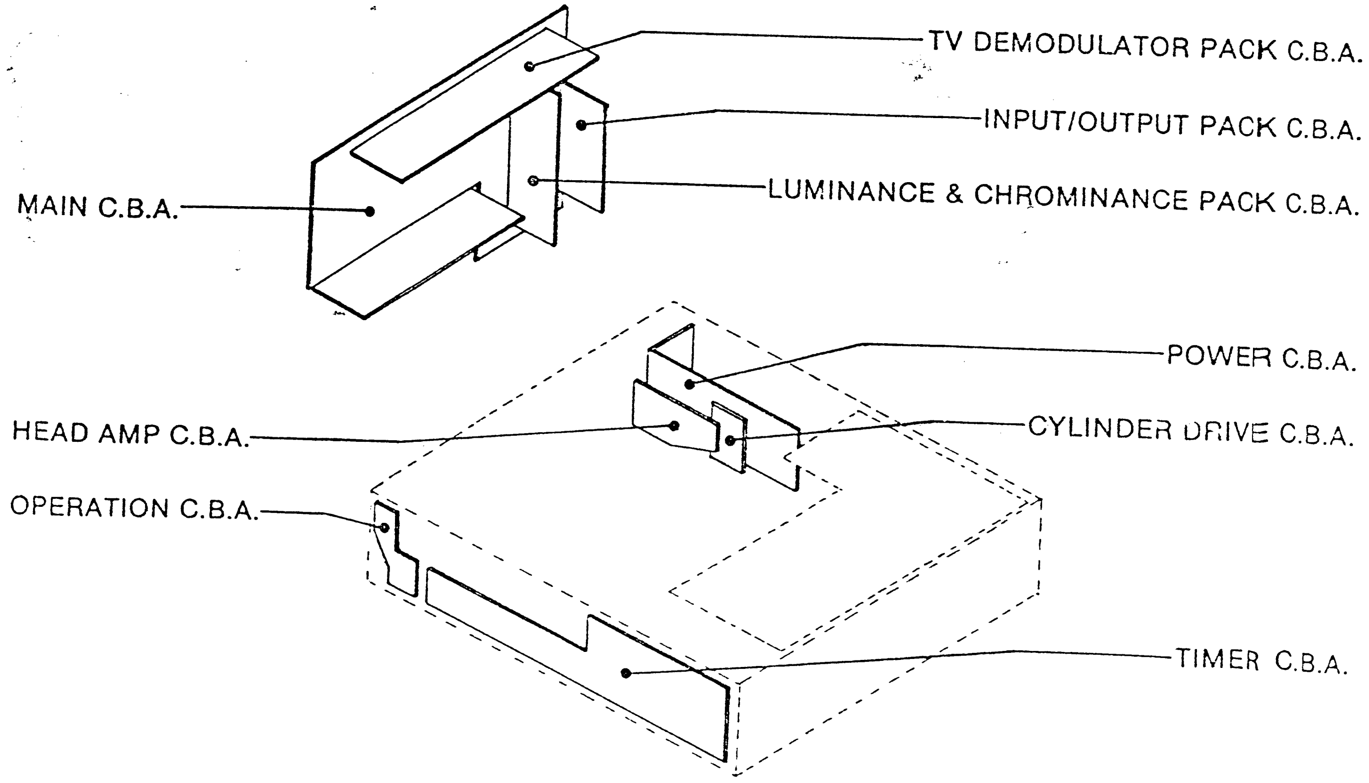
LUMINANCE & CHROMINANCE PACK C.B.A.


VR803
AFC FREE RUN
VR301
Y-NR BARANCE

TIMER C.B.A.


TP7501
TIMER REFERENCE CLOCK
C7501
TP7518
TP7517
TP7519
VR7501
PICTURE CTL

CIRCUIT BOARD LAYOUT


TV DEMODULATOR PACK C.B.A.
INPUT/OUTPUT PACK C.B.A.
MAIN C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
POWER C.B.A.
HEAD AMP C.B.A.
CYLINDER DRIVE C.B.A.
OPERATION C.B.A.
TIMER C.B.A.

2-3. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electric circuits of VHS Video Cassette Recorders.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. Dual-Trace Oscilloscope. (Mode than 35 MHz)
   Voltage Range: 0.005-5V/div
   Frequency Range: DC-35MHz
   Probes: 10:1
2. Frequency Counter.
   Frequency Range: 0-10MHz
   Probes: 1:1
3. Universal Counter.
4. Vacuum Tube Volt Meter. (V.T.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.

2-3-2. PREPARATION

During adjustments, set each selector as follows when no indication on each procedures.

PICTURE VR........Centre Fix
NOISE FILTER EDIT SW........OFF
TEST SIGNAL SW(REAR)........OFF

2-3-3. HOW TO READ ADJUSTMENT PROCEDURES

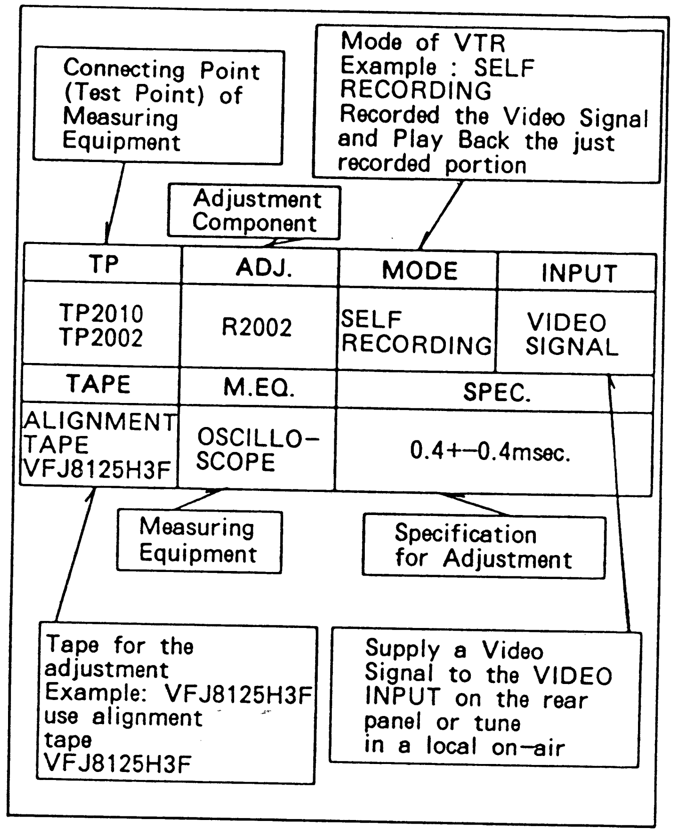

Connecting Point (Test Point) of Measuring Equipment
Mode of VTR Example : SELF RECORDING Recorded the Video Signal and Play Back the just recorded portion
Adjustment Component
TP
ADJ.
MODE
INPUT
TP2010 TP2002
R2002
SELF RECORDING
VIDEO SIGNAL
TAPE
M.EQ.
SPEC.
ALIGNMENT TAPE VFJ8125H3F
OSCILLO-SCOPE
0.4+-0.4msec.
Measuring Equipment
Specification for Adjustment
Tape for the adjustment Example: VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air

Fig. E1

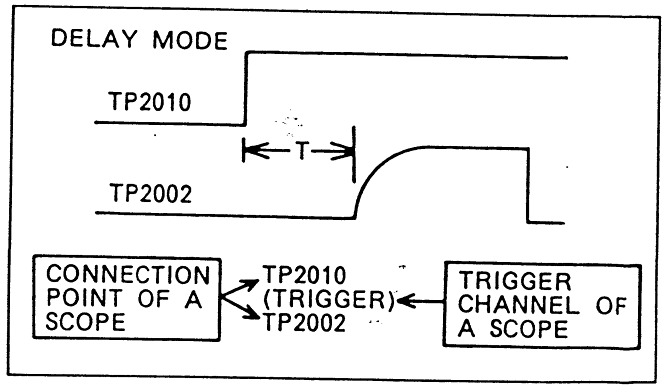

DELAY MODE
TP2010
T
TP2002
CONNECTION POINT OF A SCOPE
TP2010
(TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig. E2

SERVO SECTION

2-3-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAYBACK	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	6.5+-0.5(H)	

1. Connect the oscilloscope to TP2001(H.SW) and TP3002(V.OUT).
2. Playback the alignment tape.
3. Adjust VR2001 so that phase difference between falling edge of Head SW pulse and V-Sync becomes 6.5+-0.5(H).

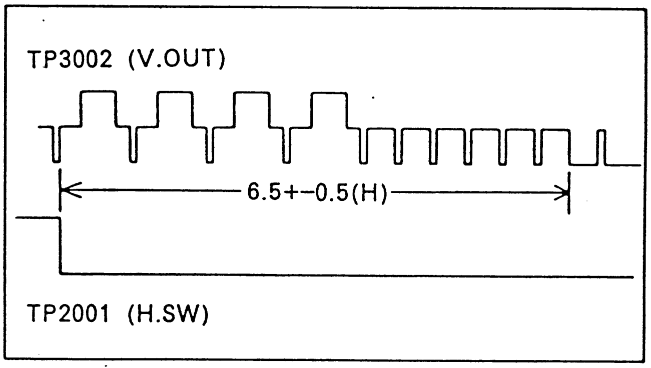


Fig. E3

LUMINANCE & CHROMINANCE SECTION

2-3-5. Y-NR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
PIN (17) of IC302	VR301	RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	MINIMIZED AS POSSIBLE (Less than 50mVp-p)	

Note:
Connect the capacitor 1500pF between Pin 17 of IC302 and GND.

1. Record the colour bar.
2. Connect the oscilloscope to Pin 17 of IC302.
3. Adjust VR301 so that the amplitude at Pin 17 of IC302 becomes minimum.

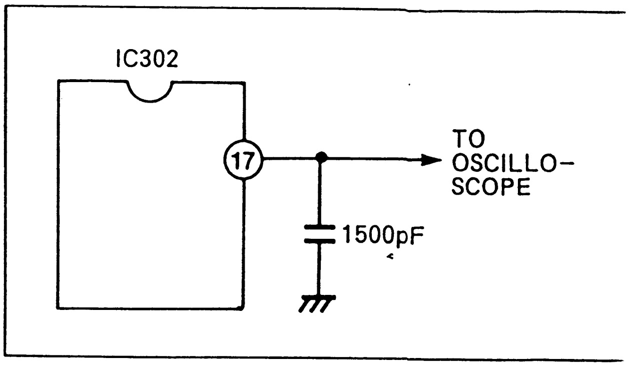


Fig. E4

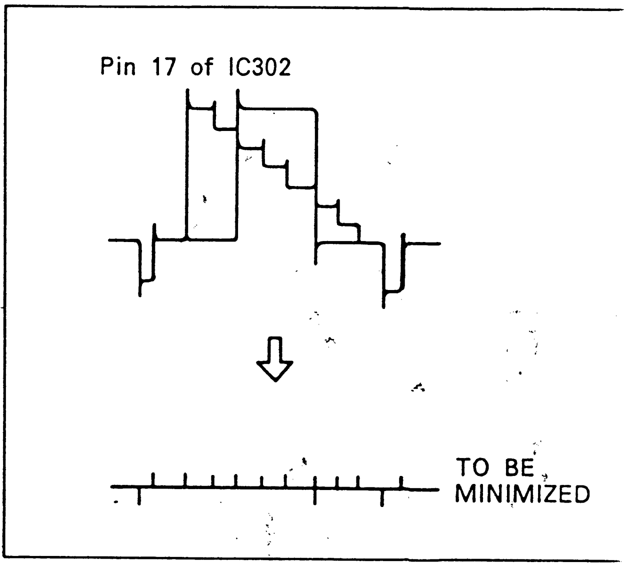


Fig. E5

2-3-6. ARTIFICIAL PAL AFC FREE RUN ADJSUTMENT

TP	ADJ.	MODE	INPUT
PIN (9) of IC801	VR803	STOP	SINEWAVE 8KHz -10dB (316mV)
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER SINEWAVE GENERATOR	15735+-100(Hz)	

Note:
Supply +5V DC to Pin 15 of IC801.

1. Supply the sinewave (8KHz/-10dB) to Line (Video In)
2. Connect the frequency counter to Pin 9 IC801.
3. Turn VR803 to end of direction which maximum frequency side.
4. Adjust VR803 so that the frequency becon 15735+-100(Hz).

2-3-7. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR501(Y) VR502(C)	RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	Y:130+-5(mVp-p) C:32+-2(mVp-p)	

1. Record the colour bar.
2. Connect the oscilloscope to TP507(HOT) and TP508(GND).
3. Supply +5V DC to Pin 6 of Luminance & Chrominance Pack C.B.A. to reduce luminance component.
4. Adjust VR502 so that the amplitude of Cyan becomes 32+-2mVp-p.
5. Adjust VR501 so that the amplitude of sync tip portion becomes 130+-5mVp-p.

NOTE:
Before "Luminance Recording Current Adjustment", "Chrominance Recording Current Adjustment" must be completed.

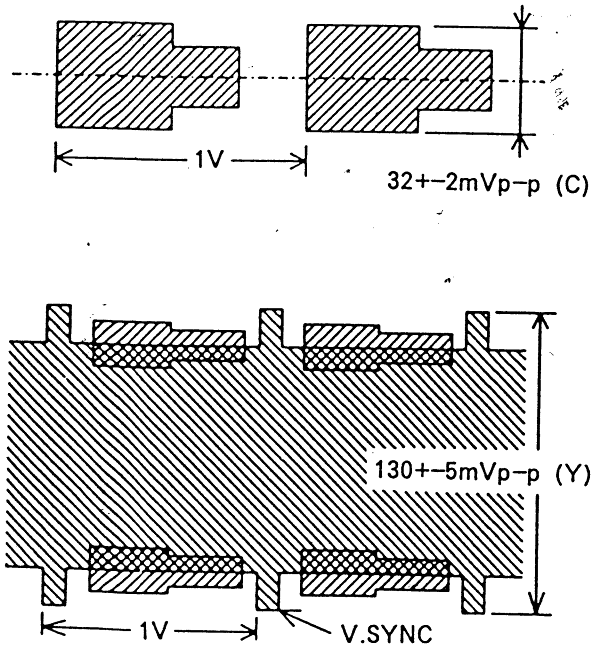
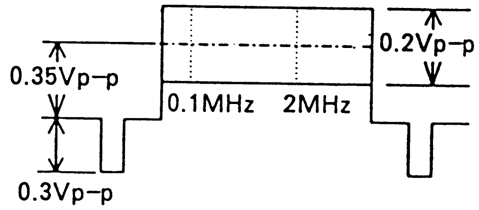


Fig. E6

2-3-8. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR3012	(SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE VIDEO SWEEP GENERATOR	0+-1(dB) (90~100%)	

Note:
Set the Video Sweep Signal as shown in Fig.E7.



CONDITIONS : BURST SIGNAL OFF
75ohm TERMINATED

Fig. E7

1. Record the Video Sweep Signal for few time and playback the just recorded portion.
2. Connect the oscilloscope to TP3002.
3. Adjust VR3012 so that the frequency response becomes 0+-1dB on 2MHz portion compare with 0.1MHz portion.

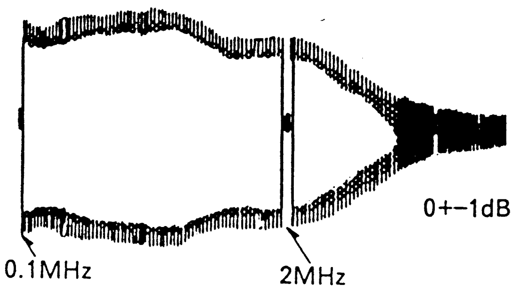


Fig.E8

AUDIO SECTION

2-3-9. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	3.0+–0.1(mVrms)	

Note:
Connect the Audio input and GND.

1. Place the unit in recording mode.
2. Connect the V.T.V.M. to TP4002(HOT) and TP4003(GND).
3. Adjust VR4002 so that reading of V.T.V.M. becomes 3.0+–0.1mVrms.

TIMER SECTION

2-3-10. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7501	C7501	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	UNIVERSAL COUNTER	7812.5+–0.015(us)	

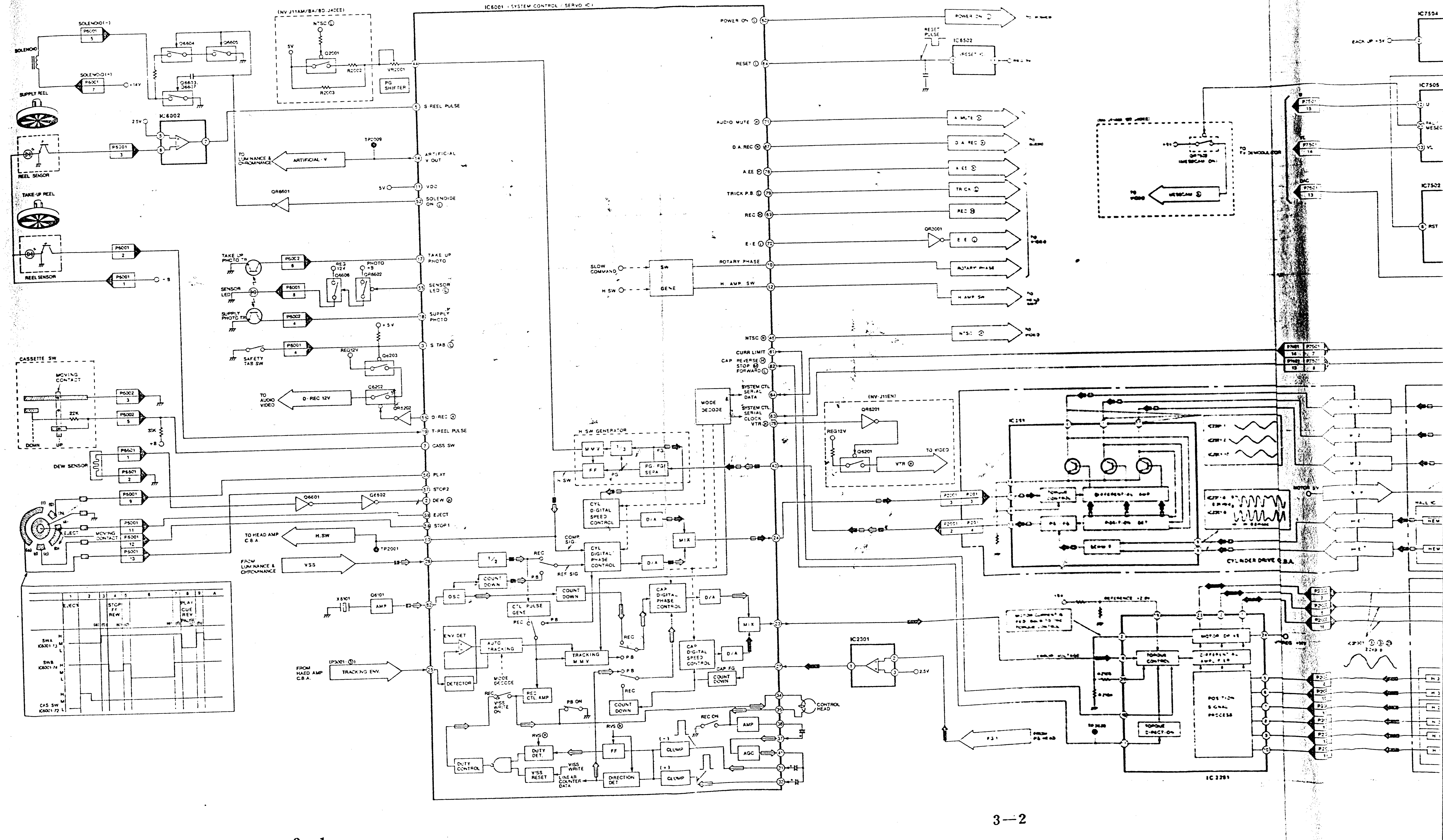
1. Connect the universal counter to TP7501.
2. Adjust C7501 so that the reading of universal counter becomes 7812.5+–0.015us.

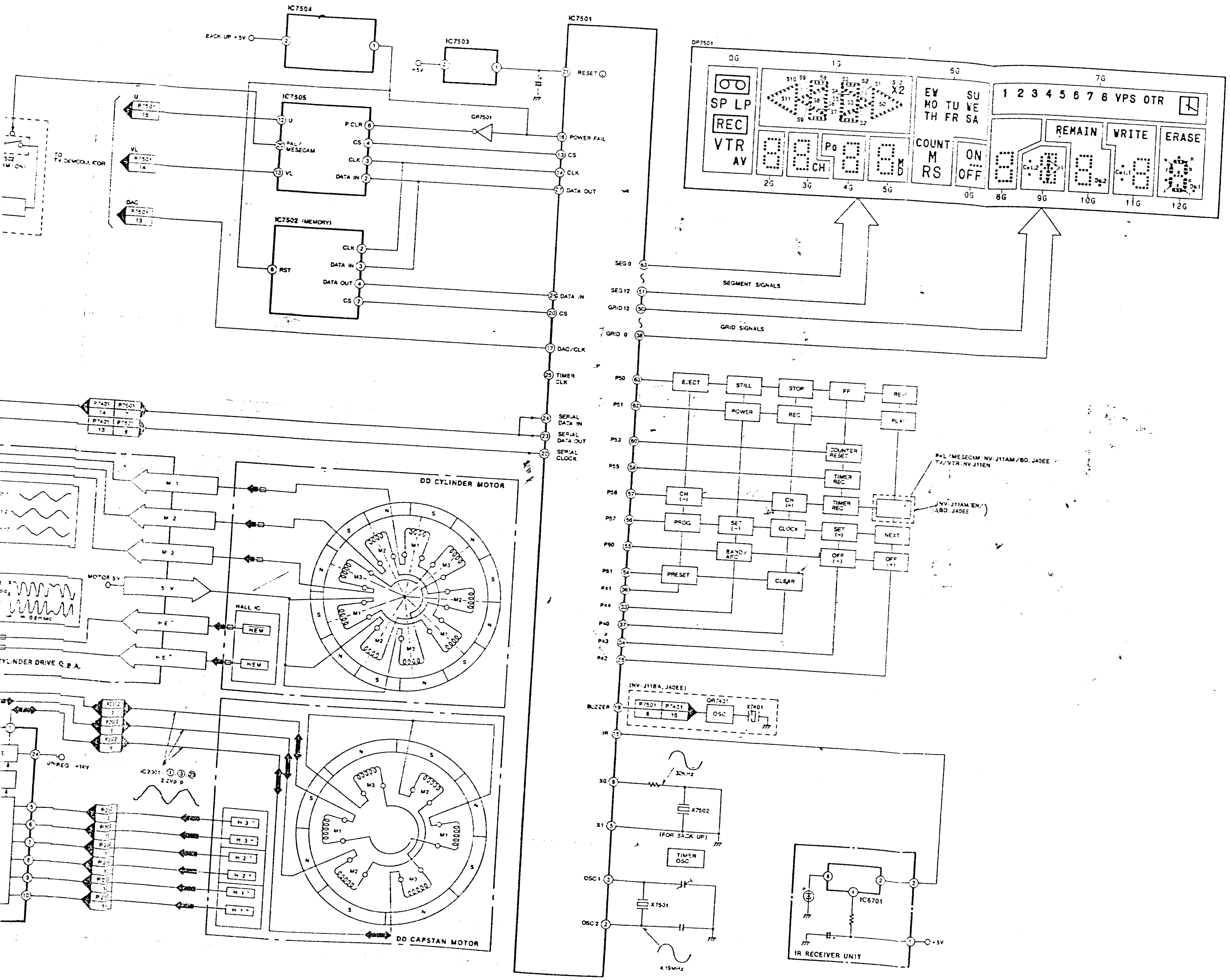
SECTION 3

BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

3-1. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

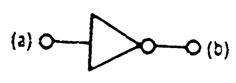
CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP


IC6001 (SYSTEM CONTROL / SERVO IC)
SOLENOID
SUPPLY REEL
REEL SENSOR
TAKE-UP REEL
IC6002
TO LUMINANCE & CHROMINANCE
ARTIFICIAL-V
PG SHIFTER
S.REEL PULSE
ARTIFICIAL V OUT
VDD
SOLENOIDE ON
TAKE UP PHOTO
SENSOR LED
SUPPLY PHOTO
S TAB
SAFETY TAB SW
TO AUDIO VIDEO
D-REC 12V
D-REC
T-REEL PULSE
CASSETTE SW
MOVING CONTACT
DOWN
UP
DEW SENSOR
CASS SW
PLAY
STOP2
DEW
EJECT
STOP1
TO HEAD AMP C.B.A.
H.SW
FROM LUMINANCE & CHROMINANCE
VSS
FROM HEAD AMP C.B.A.
TRACKING ENV.
POWER ON
RESET
IC6502
RESET IC
AUDIO MUTE
D.A.REC
A.EE
TRICK P.B.
REC
E-E
ROTARY PHASE
H. AMP SW
NTSC
SLOW COMMAND
H SW
SW
GENE
CURR LIMIT
CAP REVERSE
STOP
FORWARD
SYSTEM CTL SERIAL DATA
SYSTEM CTL SERIAL CLOCK
VTR
MODE DECODE
H.SW GENERATOR
MMV
FF
PG
PG FG SEPA
CYL DIGITAL SPEED CONTROL
CYL DIGITAL PHASE CONTROL
D/A
MIX
COMP SIG
REF SIG
COUNT DOWN
OSC
CTL PULSE GENE
AMP
ENV DET
AUTO TRACKING
DETECTOR
TRACKING MMV
CAP DIGITAL PHASE CONTROL
CAP DIGITAL SPEED CONTROL
CAP FG
REC CTL AMP
PB ON
REC ON
AGC
CLUMP
CONTROL HEAD
DUTY DET.
DUTY CONTROL
VISS RESET
VISS WRITE
LINEAR COUNTER DATA
DIRECTION DET
IC2301
IC6101
IC2291
CYLINDER DRIVE C.B.A.
TORQUE CONTROL
DIFFERENTIAL AMP
POSITION SIGNAL PROCESS
TORQUE DIRECTION
MOTOR DRIVE
IC7504
IC7505
IC7502
BACK UP +5V
MESECAM ON
TO TV DEMODULATOR
HALL IC
MOTOR 5V


IC7504
BACK UP +5V
IC7503
+5V
IC7501
RESET
IC7505
P.CLR
CS
CLK
DATA IN
PAL/MESECAM
U
VL
DAC
TO TV DEMODULATOR
QR7501
POWER FAIL
CS
CLK
DATA OUT
IC7502 (MEMORY)
RST
CLK
DATA IN
DATA OUT
CS
DATA IN
CS
DAC/CLK
TIMER CLK
SERIAL DATA IN
SERIAL DATA OUT
SERIAL CLOCK
SEG 0
SEG 12
GRID 12
GRID 0
SEGMENT SIGNALS
GRID SIGNALS
DP7501
0G
1G
5G
7G
SP LP
REC
VTR
AV
EW SU
MO TU WE
TH FR SA
1 2 3 4 5 6 7 8 VPS OTR
COUNT
M
RS
ON
OFF
REMAIN
WRITE
ERASE
Po
CH
2G
3G
4G
5G
0G
8G
9G
10G
11G
12G
P50
P51
P53
P55
P56
P57
P60
P61
P41
P44
P40
P43
P42
EJECT
STILL
STOP
FF
REW
POWER
REC
PLAY
COUNTER RESET
TIMER REC
CH (–)
CH (+)
TIMER REC
PROG
SET (–)
CLOCK
SET (+)
NEXT
BAND/AFC
OFF (–)
OFF (+)
PRESET
CLEAR
PAL/MESECAM: NV-J11AM/BD, J40EE
T/V/VTR: NV-J11EN
(NV-J11AM/EN/BD, J40EE)
DD CYLINDER MOTOR
M 1
M 2
M 3
MOTOR 5V
5 V
HALL IC
HEM
H E
CYLINDER DRIVE C.B.A.
6.8msec
(NV-J11BA, J40EE)
BUZZER
P7501
P7401
QR7401
OSC
X7401
IR
X0
X1
X7502
(FOR BACK UP)
TIMER OSC
OSC 1
OSC 2
X7501
4.19MHz
32kHz
IR RECEIVER UNIT
IC6701
+5V
UNREG +14V
IC2001
2.2Vp-p
DD CAPSTAN MOTOR
H 3
H 2
H 1

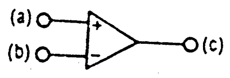
SYMBOL	TRUTH VALUE TABLE

INVERTER



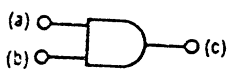
IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR



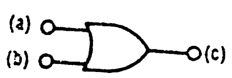
IN	(a) (b)	(a) > (b)	(a) < (b)
OUT	(c)	H	L

AND CIRCUIT



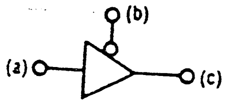
IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT



IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

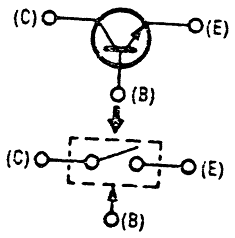
THREE STATES BUFFER



IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

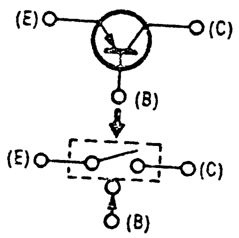
※ High Impedance

TR. SW (NPN TYPE)



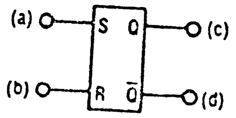
BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)



BASE	H	L
TR. SW	OFF	ON

R·S TYPE FLIP-FLOP

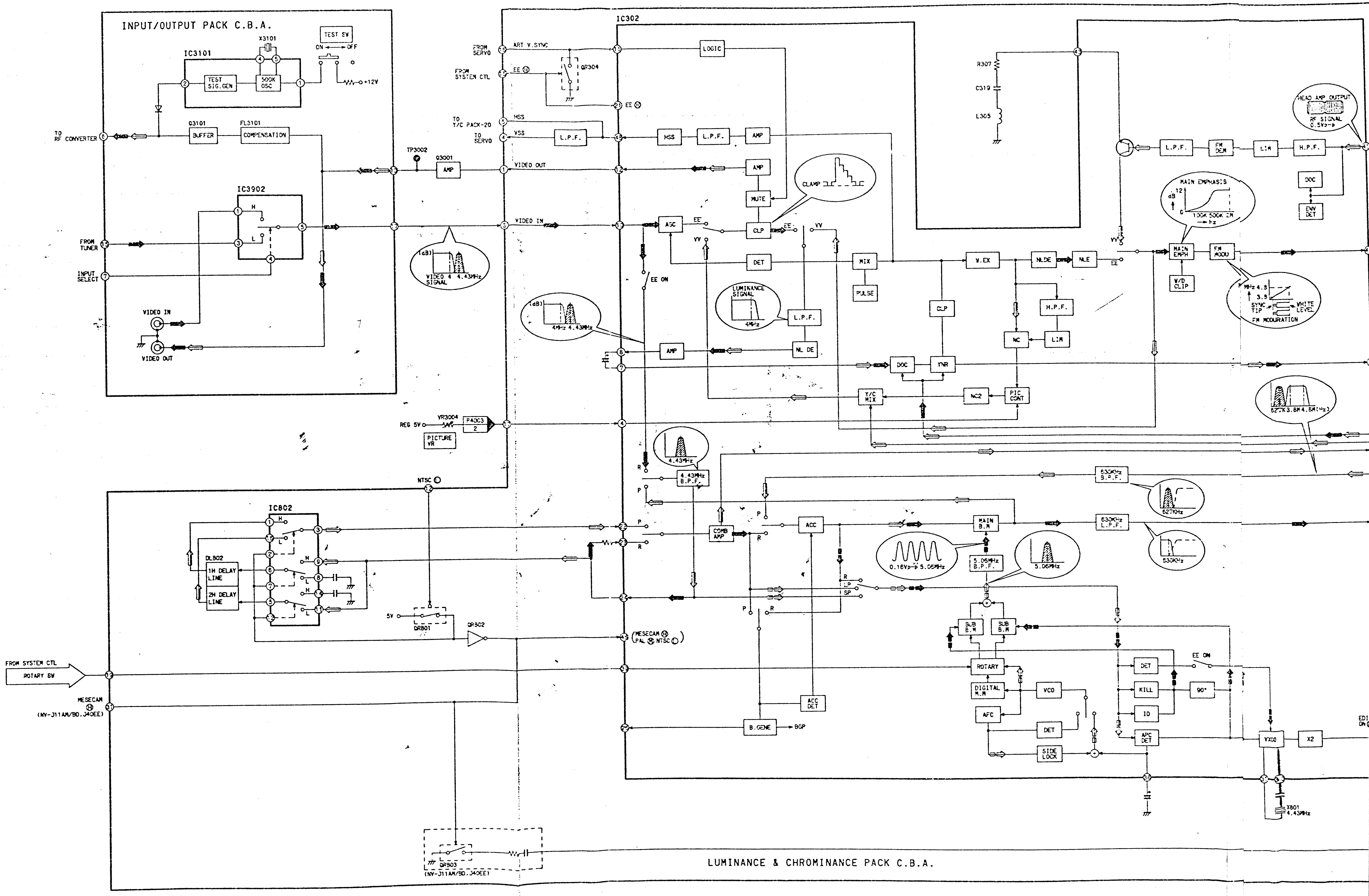


IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reversed.

3-2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

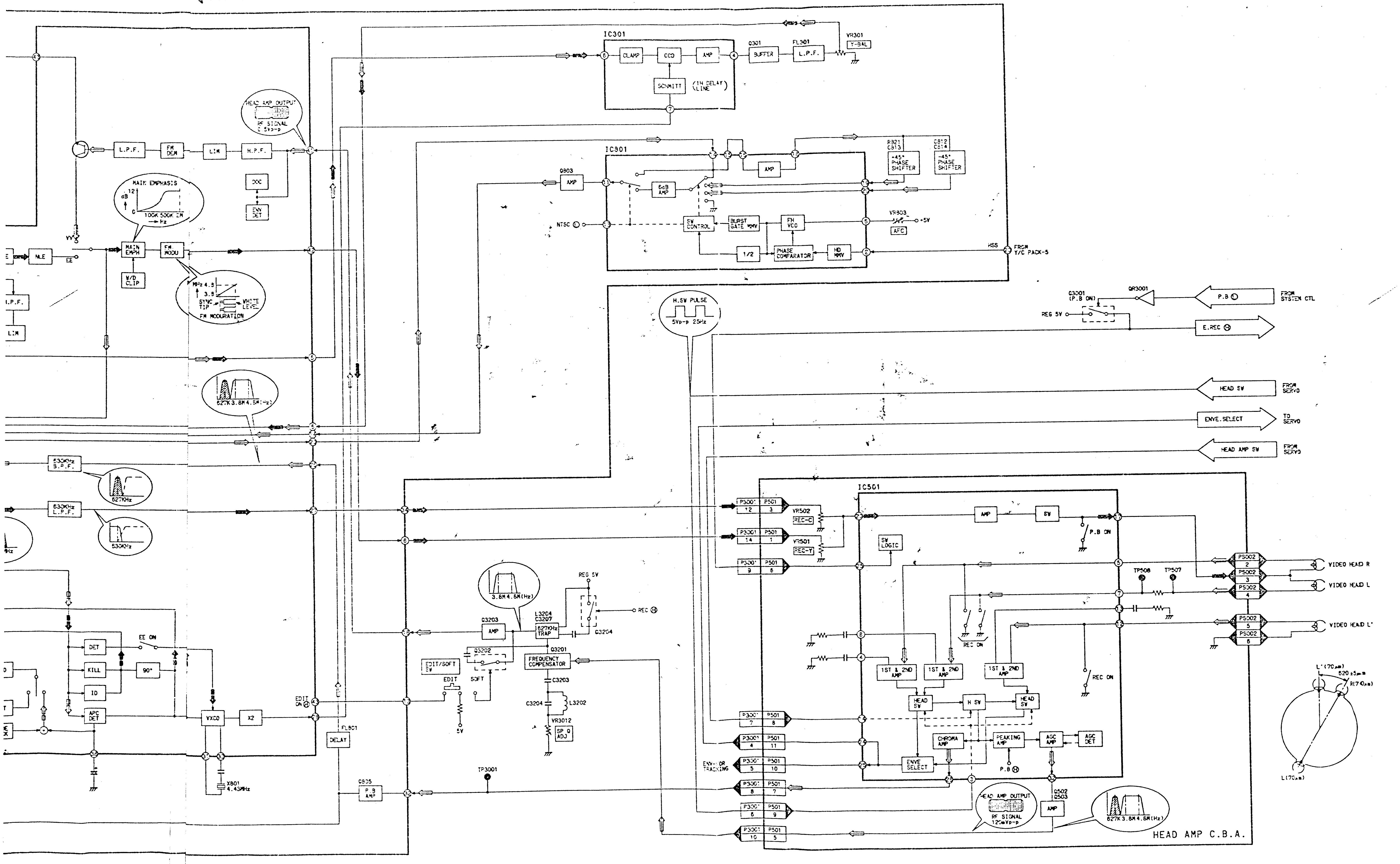
MAIN SIGNAL PATH IN REC MODE   MAIN SIGNAL PATH IN PLAYBACK MODE   5.06MHz PH



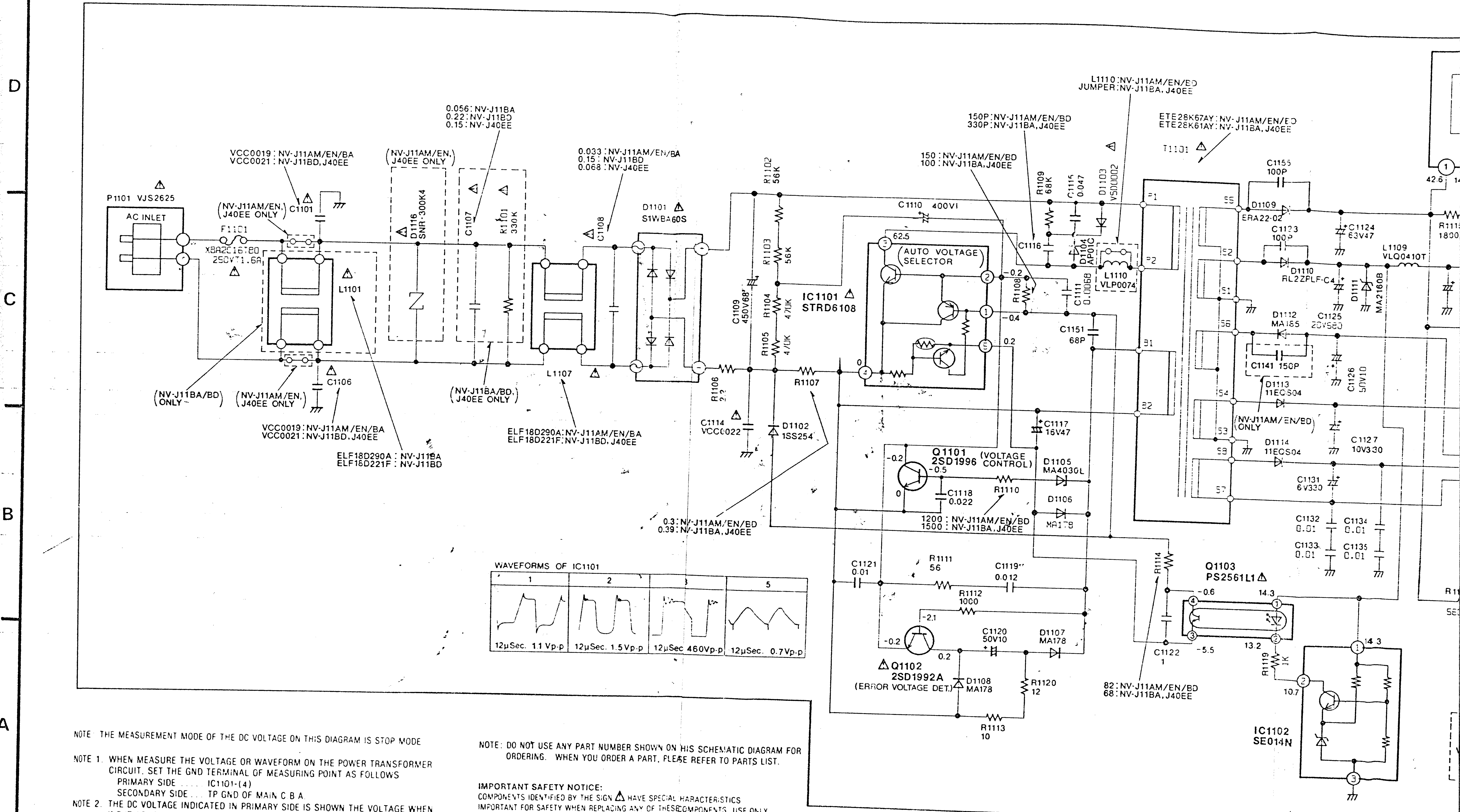
INPUT/OUTPUT PACK C.B.A.
IC3101
X3101
TEST SIG.GEN
500K OSC
TEST SW
ON
OFF
+12V
TO RF CONVERTER
Q3101
BUFFER
FL3101
COMPENSATION
TP3002
Q3001
AMP
IC3902
H
L
FROM TUNER
INPUT SELECT
VIDEO IN
VIDEO OUT
(dB)
VIDEO 4 4.43MHz SIGNAL
FROM SERVO
ART V.SYNC
FROM SYSTEM CTL
EE
QR304
TO Y/C PACK-20
HSS
TO SERVO
VSS
L.P.F.
VIDEO OUT
VIDEO IN
IC302
LOGIC
HSS
L.P.F.
AMP
AMP
MUTE
CLAMP
CLP
AGC
EE
YV
DET
EE ON
LUMINANCE SIGNAL
4MHz
L.P.F.
NL DE
AMP
4MHz 4.43MHz
MIX
PULSE
DOC
Y/NR
Y/C MIX
NC2
PIC CONT
CLP
W.EX
NLDE
NLE
H.P.F.
LIM
NC
R307
C319
L305
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
L.P.F.
FM DEM
LIM
H.P.F.
DOC
ENV DET
MAIN EMPHASIS
dB
12
0
100K 500K 2M
Hz
MAIN EMPH
FM MODU
W/D CLIP
MHz 4.8
3.8
SYNC TIP
WHITE LEVEL
FM MODULATION
627K 3.8M 4.8M (Hz)
REG 5V
VR3004
PICTURE VR
P4003
NTSC
4.43MHz
4.43MHz B.P.F.
R
P
530KHz B.P.F.
627KHz
COMB AMP
ACC
MAIN B.M
630KHz L.P.F.
530KHz
0.16Vp-p 5.06MHz
5.06MHz B.P.F.
5.06MHz
LP
SP
SUB B.M
SUB B.M
ROTARY
DIGITAL M.M
VCO
AFC
DET
SIDE LOCK
DET
KILL
ID
APC DET
90°
EE ON
VXCO
X2
X801 4.43MHz
ACC DET
B.GENE
BGP
IC802
DL802
1H DELAY LINE
2H DELAY LINE
5V
QR801
QR802
MESECAM H
PAL H NTSC L
FROM SYSTEM CTL
ROTARY SW
MESECAM
(NV-J11AM/BD.J40EE)
QR803
(NV-J11AM/BD.J40EE)
LUMINANCE & CHROMINANCE PACK C.B.A.
EDI ON

Back Page:

IN PLAYBACK MODE ⇦ 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE ⇦ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE


IC301
CLAMP
CCD
AMP
SCHMITT
(1H DELAY LINE)
Q301
BUFFER
FL301
L.P.F.
VR301
Y-BAL
HEAD AMP OUTPUT
RF SIGNAL
L.P.F.
FM DEM
LIM
H.P.F.
DOC
ENV DET
MAIN EMPHASIS
dB
12
0
100K 500K 2M
Hz
MAIN EMPH
FM MODU
W/D CLIP
NLE
EE
L.P.F.
LIM
MHz 4.8
3.8
SYNC TIP
WHITE LEVEL
FM MODURATION
627K 3.8M 4.8M(Hz)
IC801
Q803
AMP
6dB AMP
AMP
R821 C813
+45° PHASE SHIFTER
C812 C814
-45° PHASE SHIFTER
NTSC
SW CONTROL
BURST GATE MMV
FH VCO
VR803
+5V
AFC
1/2
PHASE COMPARATOR
HD MMV
HSS
FROM Y/C PACK-5
Q3001 (P.B ON)
QR3001
REG 5V
P.B
FROM SYSTEM CTL
E.REC
H.SW PULSE
5Vp-p 25Hz
HEAD SW
FROM SERVO
ENVE. SELECT
TO SERVO
HEAD AMP SW
FROM SERVO
530KHz B.P.F.
627KHz
530KHz L.P.F.
530KHz
DET
KILL
ID
APC DET
90°
EE ON
VXCO
X2
X801 4.43MHz
3.8M 4.8M(Hz)
REG 5V
REC
Q3203
AMP
L3204 C3207
627KHz TRAP
C3204
Q3202
Q3201
FREQUENCY COMPENSATOR
EDIT/SOFT SW
EDIT
SOFT
5V
C3203
C3204
L3202
VR3012
SP.Q ADJ
EDIT ON
DELAY
FL801
Q805
P.B AMP
TP3001
IC501
P3001 12 P501 3
VR502 REC-C
P3001 14 P501 1
VR501 REC-Y
P3001 9 P501 6
AMP
SW
P.B ON
SW LOGIC
TP508
TP507
P5002 2
P5002 3
P5002 4
P5002 5
P5002 6
VIDEO HEAD R
VIDEO HEAD L
VIDEO HEAD L'
REC ON
1ST & 2ND AMP
1ST & 2ND AMP
1ST & 2ND AMP
REC ON
HEAD SW
H SW
HEAD SW
P3001 7 P501 8
P3001 4 P501 11
CHROMA AMP
PEAKING AMP
AGC AMP
AGC DET
ENV-OR TRACKING
P3001 5 P501 10
ENVE SELECT
P.B
P3001 8 P501 7
P3001 6 P501 9
P3001 10 P501 5
Q502 Q503
AMP
HEAD AMP OUTPUT
RF SIGNAL
120mVp-p
627K 3.8M 4.8M(Hz)
HEAD AMP C.B.A.
L'(70μm)
620±5μm
R(70μm)
L(70μm)

3-3. POWER SCHEMATIC DIAGRAM


D
C
B
A
P1101 VJS2625
AC INLET
F1101
XBA2C16TB0
2SDVT1.6A
VCC0019 : NV-J11AM/EN/BA
VCC0021 : NV-J11BD, J40EE
(NV-J11AM/EN, J40EE ONLY)
C1101
L1101
(NV-J11BA/BD) ONLY
(NV-J11AM/EN, J40EE ONLY)
C1106
VCC0019 : NV-J11AM/EN/BA
VCC0021 : NV-J11BD, J40EE
ELF18D290A : NV-J11BA
ELF18D221F : NV-J11BD
(NV-J11AM/EN, J40EE ONLY)
D1116
SNR-300K4
0.056 : NV-J11BA
0.22 : NV-J11BD
0.15 : NV-J40EE
C1107
R1101
330K
(NV-J11BA/BD, J40EE ONLY)
L1107
ELF18D290A : NV-J11AM/EN/BA
ELF18D221F : NV-J11BD, J40EE
0.033 : NV-J11AM/EN/BA
0.15 : NV-J11BD
0.068 : NV-J40EE
C1108
D1101
S1WBA60S
R1102
56K
R1103
56K
R1104
470K
R1105
470K
R1106
2.2
R1107
C1109
450V68
C1114
VCC0022
D1102
1SS254
0.3 : NV-J11AM/EN/BD
0.39 : NV-J11BA, J40EE
IC1101
STRD6108
C1110 400VI
62.5
AUTO VOLTAGE SELECTOR
-0.2
-0.4
0.2
0
150 : NV-J11AM/EN/BD
100 : NV-J11BA, J40EE
150P : NV-J11AM/EN/BD
330P : NV-J11BA, J40EE
R1108
R1109
68K
C1115
0.047
C1116
C1111
0.0068
C1151
68P
D1103
VSD0002
D1104
AP01C
L1110 : NV-J11AM/EN/BD
JUMPER : NV-J11BA, J40EE
L1110
VLP0074
C1117
16V47
Q1101
2SD1996 (VOLTAGE CONTROL)
-0.2
-0.5
0
C1118
0.022
R1110
1200 : NV-J11AM/EN/BD
1500 : NV-J11BA, J40EE
D1105
MA4030L
D1106
MA178
C1121
0.01
R1111
56
R1112
1000
C1119
0.012
-2.1
-0.2
0.2
Q1102
2SD1992A
(ERROR VOLTAGE DET.)
D1108
MA178
C1120
50V10
D1107
MA178
R1120
12
R1113
10
ETE28K67AY : NV-J11AM/EN/BD
ETE28K61AY : NV-J11BA, J40EE
T1101
P1
P2
B1
B2
S5
S2
S1
S6
S4
S3
S8
S7
C1155
100P
D1109
ERA22-02
C1123
100P
C1124
63V47
D1110
RL2ZPLF-C4
L1109
VLQ0410T
R1113
1800
42.6
D1111
MA2160B
D1112
MA165
C1125
25V560
C1141 150P
D1113
11ECS04
C1126
50V10
(NV-J11AM/EN/BD) ONLY
D1114
11ECS04
C1127
10V330
C1131
6V330
C1132
0.01
C1134
0.01
C1133
0.01
C1135
0.01
R1114
Q1103
PS2561L1
-0.6
14.3
-5.5
13.2
C1122
1
82 : NV-J11AM/EN/BD
68 : NV-J11BA, J40EE
R1119
1K
14.3
10.7
IC1102
SE014N
WAVEFORMS OF IC1101
1
2
3
5
12μSec. 1.1Vp-p
12μSec. 1.5Vp-p
12μSec 460Vp-p
12μSec. 0.7Vp-p
1
2
3
4
5
6
7

NOTE THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

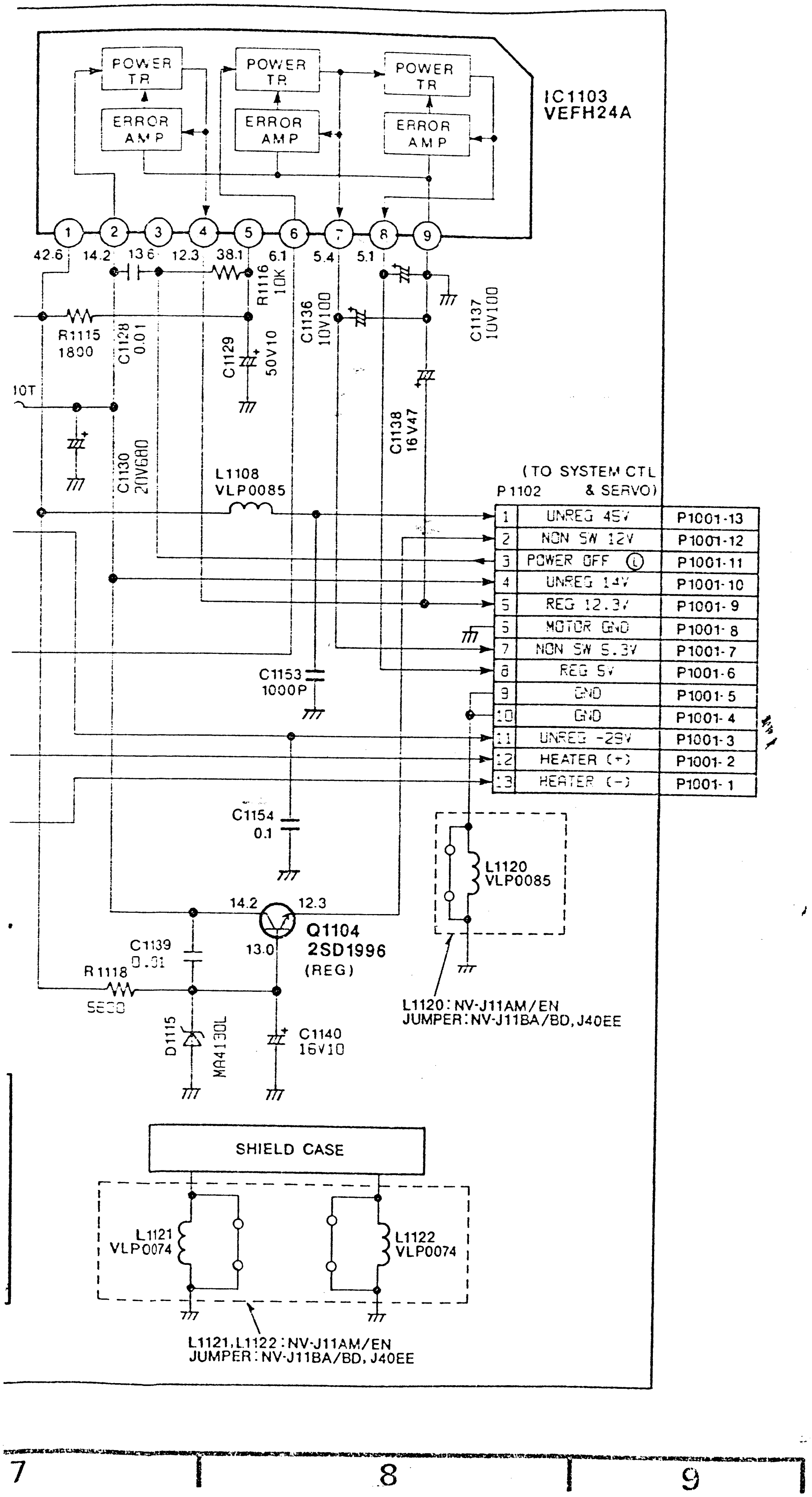
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS
PRIMARY SIDE ..... IC1101-(4)
SECONDARY SIDE .... TP GND OF MAIN C B A

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON HIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL HARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESECOMPONENTS. USE ONLY THE SPECIFIED PARTS

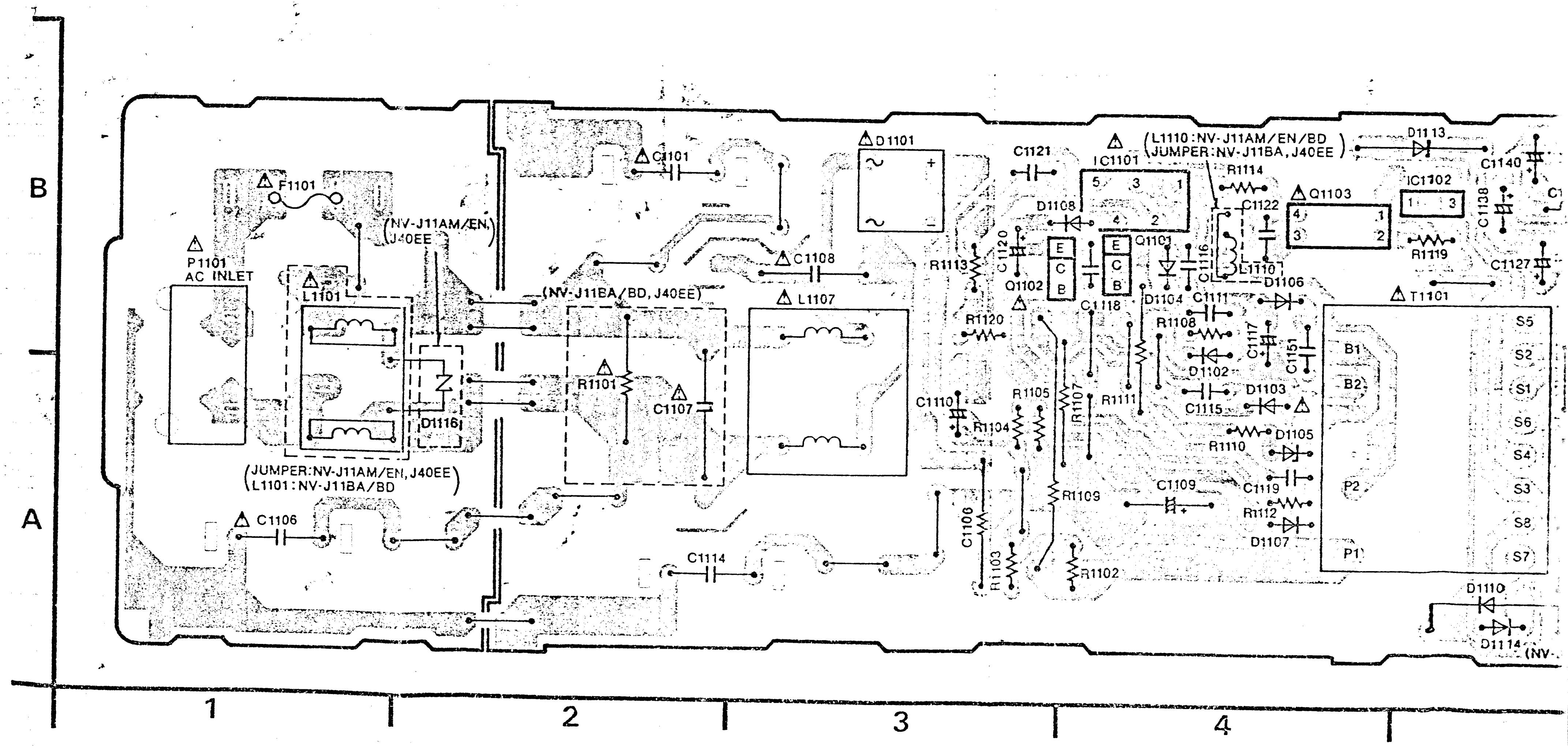
3-4. POWER C.B.A. (VEP01469H: NV-J11AM/EN) (VEP01469D: NV-J11BA) (VEP01469E: NV-J11BD) (VEP01469F:



POWER TR
ERROR AMP
POWER TR
ERROR AMP
POWER TR
ERROR AMP
IC1103
VEFH24A
1
2
3
4
5
6
7
8
9
42.6
14.2
13.6
12.3
38.1
6.1
5.4
5.1
R1116
10K
C1136
10V100
C1137
10V100
R1115
1800
C1128
0.01
C1129
50V10
10T
C1130
2IV680
L1108
VLP0085
C1138
16V47
C1153
1000P
C1154
0.1
L1120
VLP0085
L1120: NV-J11AM/EN
JUMPER: NV-J11BA/BD, J40EE
14.2
12.3
Q1104
2SD1996
(REG)
13.0
C1139
0.01
R1118
5600
D1115
MA4130L
C1140
16V10
SHIELD CASE
L1121
VLP0074
L1122
VLP0074
L1121, L1122: NV-J11AM/EN
JUMPER: NV-J11BA/BD, J40EE
7
8
9

P1102 (TO SYSTEM CTL & SERVO)

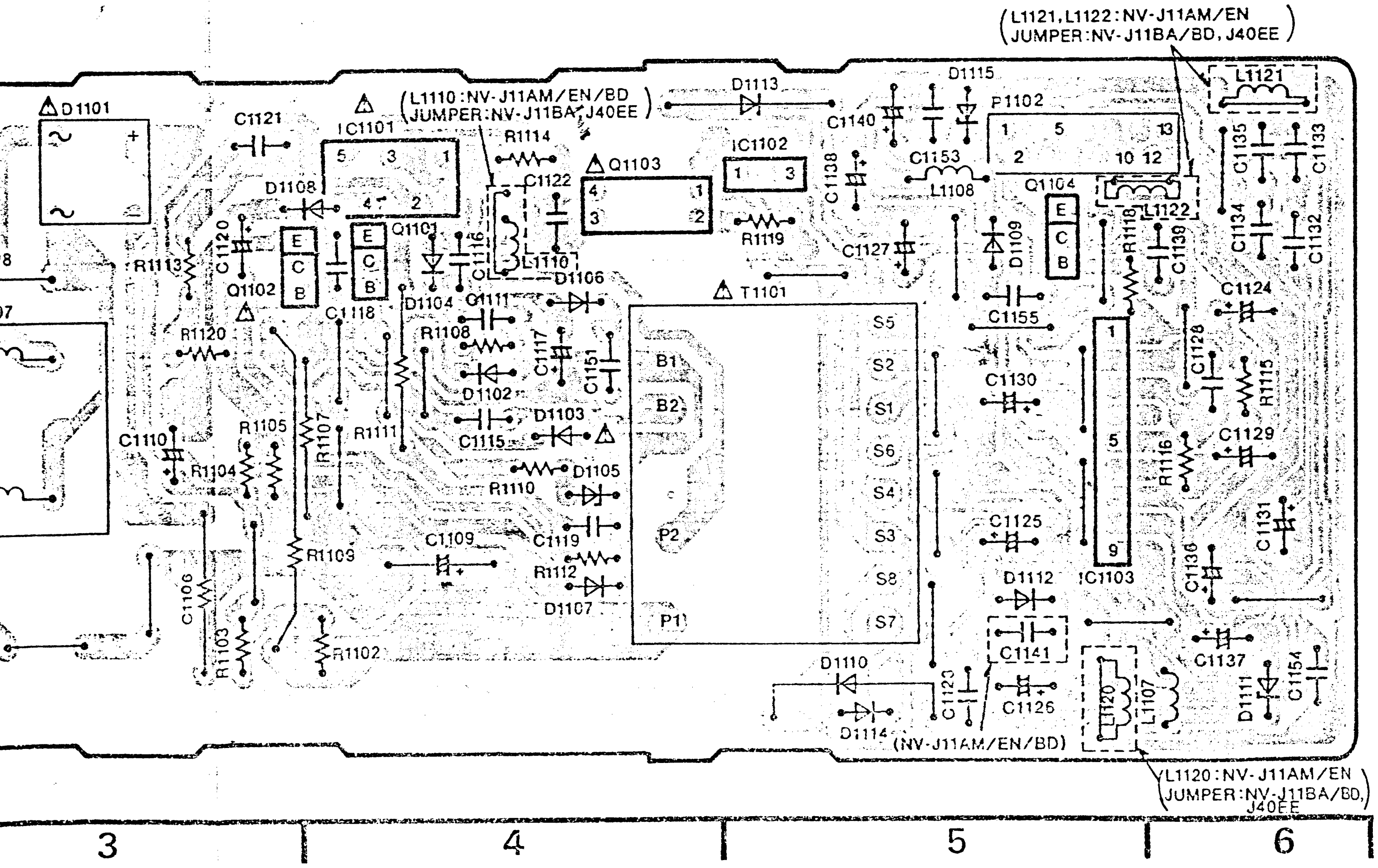
1	UNREG 45V	P1001-13
2	NON SW 12V	P1001-12
3	POWER OFF Ⓛ	P1001-11
4	UNREG 14V	P1001-10
5	REG 12.3V	P1001-9
6	MOTOR GND	P1001-8
7	NON SW 5.3V	P1001-7
8	REG 5V	P1001-6
9	GND	P1001-5
10	GND	P1001-4
11	UNREG -29V	P1001-3
12	HEATER (+)	P1001-2
13	HEATER (-)	P1001-1



B
A
F1101
P1101
AC INLET
(NV-J11AM/EN, J40EE)
L1101
D1116
(JUMPER: NV-J11AM/EN, J40EE)
(L1101: NV-J11BA/BD)
C1106
C1101
C1108
(NV-J11BA/BD, J40EE)
R1101
C1107
L1107
C1114
D1101
C1121
IC1101
(L1110: NV-J11AM/EN/BD)
(JUMPER: NV-J11BA, J40EE)
R1114
D1113
C1140
IC1102
C1138
C1127
Q1103
R1119
D1108
C1120
R1113
Q1102
Q1101
C1116
L1110
C1122
D1106
D1104
C1111
C1118
R1120
R1108
C1117
C1151
D1102
T1101
S5
S2
S1
S6
S4
S3
S8
S7
B1
B2
P2
P1
C1110
R1104
R1105
R1107
R1111
C1115
D1103
D1105
R1110
C1109
C1119
R1112
D1107
R1109
C1108
R1103
R1102
D1110
D1114
(NV-
1
2
3
4

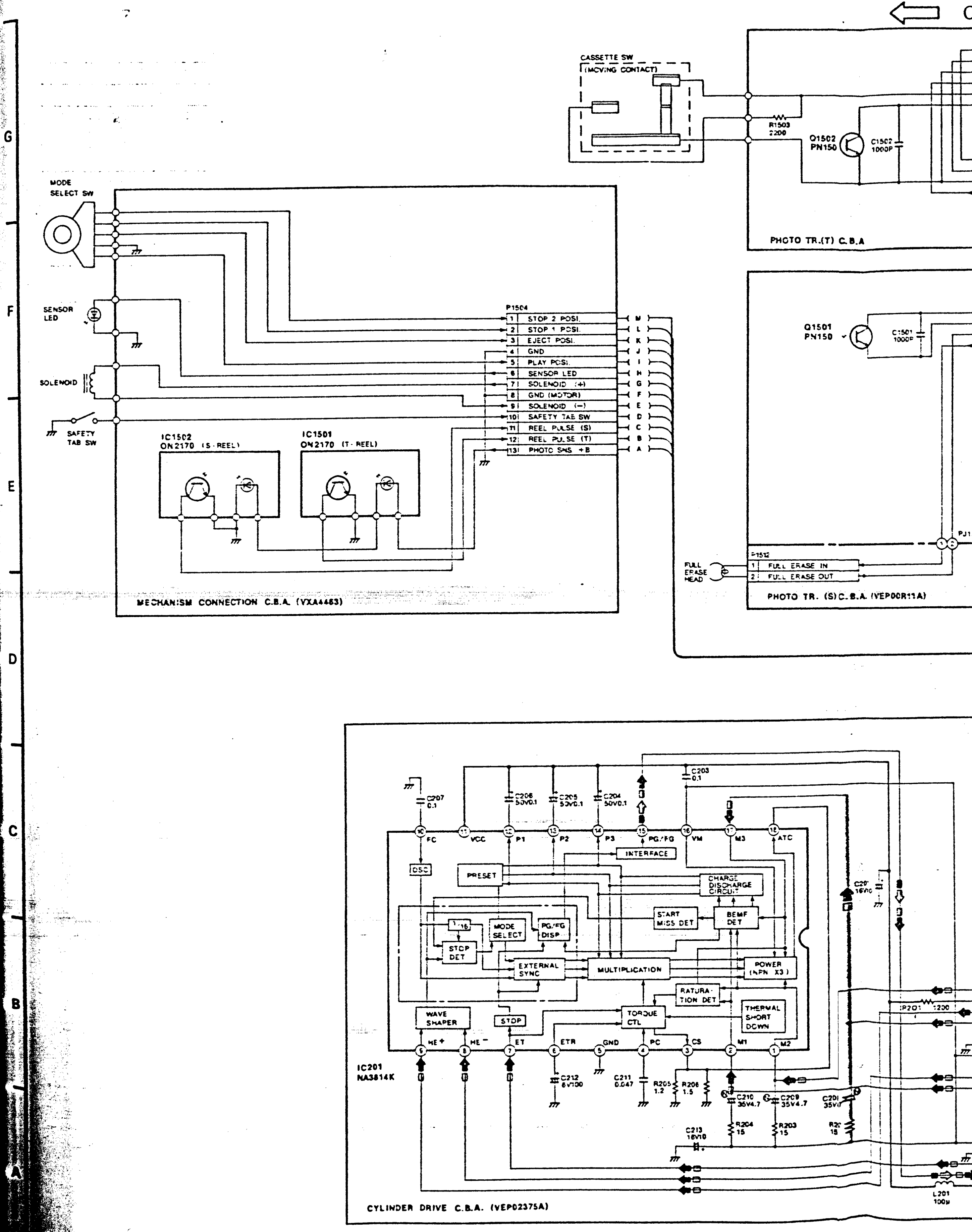
POWER C.B.A.	
Transistor	
Q1101	B-4
Q1102	B-3
Q1103	B-4
Q1104	B-5
Integrated Circuit	
IC1101	B-4
IC1102	B-5
IC1103	A-5
Connector	
P1101	B-1
P1102	B-5

ADDRESS INFORMATION


(L1121, L1122: NV-J11AM/EN
JUMPER: NV-J11BA/BD, J40EE)
(L1110: NV-J11AM/EN/BD
JUMPER: NV-J11BA, J40EE)
D1101
C1121
IC1101
D1108
C1120
R1113
Q1102
E
C
B
Q1101
C1118
R1120
R1105
R1107
R1111
C1110
R1104
R1109
C1106
R1103
R1102
R1114
C1122
Q1103
L1110
D1106
C1116
D1104
C1111
R1108
D1102
C1117
C1151
C1115
D1103
R1110
D1105
C1109
C1119
R1112
D1107
D1113
IC1102
R1119
T1101
B1
B2
P2
P1
S5
S2
S1
S6
S4
S3
S8
S7
D1115
C1140
C1138
C1153
L1108
C1127
P1102
Q1104
D1109
C1155
C1130
C1125
D1112
C1141
C1126
C1123
D1110
D1114
(NV-J11AM/EN/BD)
IC1103
R1118
L1122
L1121
C1135
C1133
C1139
C1134
C1132
C1124
C1128
R1115
R1116
C1129
C1131
C1136
C1137
L1120
L1107
D1111
C1154
(L1120: NV-J11AM/EN
JUMPER: NV-J11BA/BD, J40EE)
3
4
5
6

Next Page:
SYSTEM CONTROL & SERVO Section

3-5. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
CASSETTE SW
(MOVING CONTACT)
R1503
2200
Q1502
PN150
C1502
1000P
PHOTO TR.(T) C.B.A
MODE
SELECT SW
SENSOR
LED
SOLENOID
SAFETY
TAB SW
P1504
1 STOP 2 POSI.
2 STOP 1 POSI.
3 EJECT POSI.
4 GND
5 PLAY POSI.
6 SENSOR LED
7 SOLENOID (+)
8 GND (MOTOR)
9 SOLENOID (−)
10 SAFETY TAB SW
11 REEL PULSE (S)
12 REEL PULSE (T)
13 PHOTO SNS +B
M
L
K
J
I
H
G
F
E
D
C
B
A
IC1502
ON2170 (S-REEL)
IC1501
ON2170 (T-REEL)
MECHANISM CONNECTION C.B.A. (VXA4463)
Q1501
PN150
C1501
1000P
PJ1
P1512
1 FULL ERASE IN
2 FULL ERASE OUT
FULL
ERASE
HEAD
PHOTO TR. (S) C.B.A. (VEP00R11A)
C207
0.1
C206
50V0.1
C205
50V0.1
C204
50V0.1
C203
0.1
10 FC
11 VCC
12 P1
13 P2
14 P3
15 PG/FG
16 VM
17 M3
18 ATC
OSC
PRESET
INTERFACE
CHARGE
DISCHARGE
CIRCUIT
START
MISS DET
BEMF
DET
1/16
MODE
SELECT
PG/FG
DISP
STOP
DET
EXTERNAL
SYNC
MULTIPLICATION
POWER
(NPN X3)
RATURA-
TION DET
THERMAL
SHORT
DOWN
WAVE
SHAPER
STOP
TORQUE
CTL
6 HE+
8 HE−
7 ET
6 ETR
5 GND
4 PC
3 CS
2 M1
1 M2
IC201
NA3814K
C212
6V100
C211
0.047
R205
1.2
R206
1.5
C210
35V4.7
C209
35V4.7
C201
35V
C213
16V10
R204
15
R203
15
R2
15
C20
16V10
P201
1200
L201
100μ
CYLINDER DRIVE C.B.A. (VEP02375A)
C
C
1
2
3
4
5

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

M

⇐ CAPSTAN SERVO SPEED LOOP
⇐ CAPSTAN SERVO PHASE LOOP

⇐ AUDIO MAIN SIGNAL PATH IN REC MODE
⇐ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

⇐ CYLINDER SERVO SPEED LOOP
⇐ CYLINDER SERVO PHASE LOOP

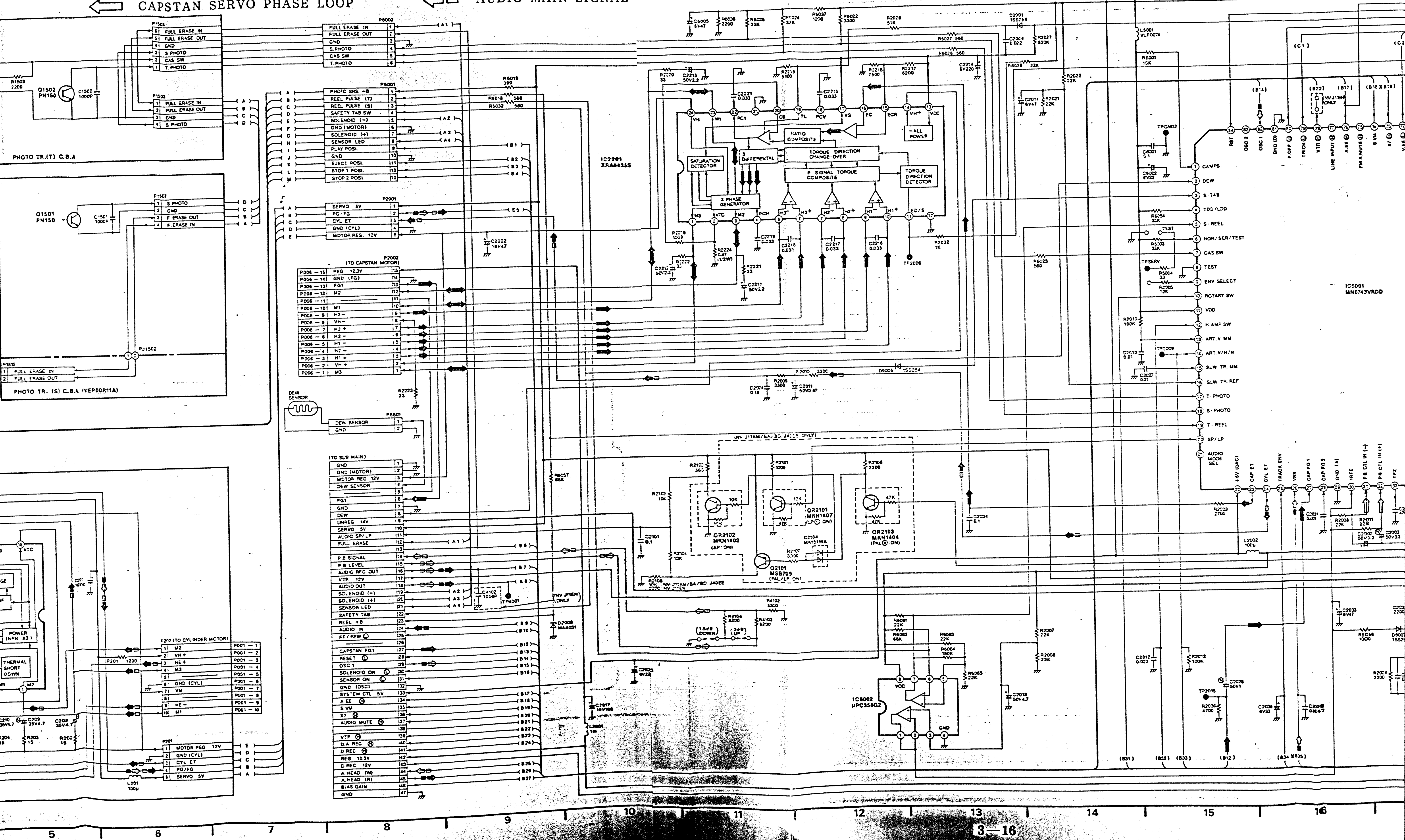
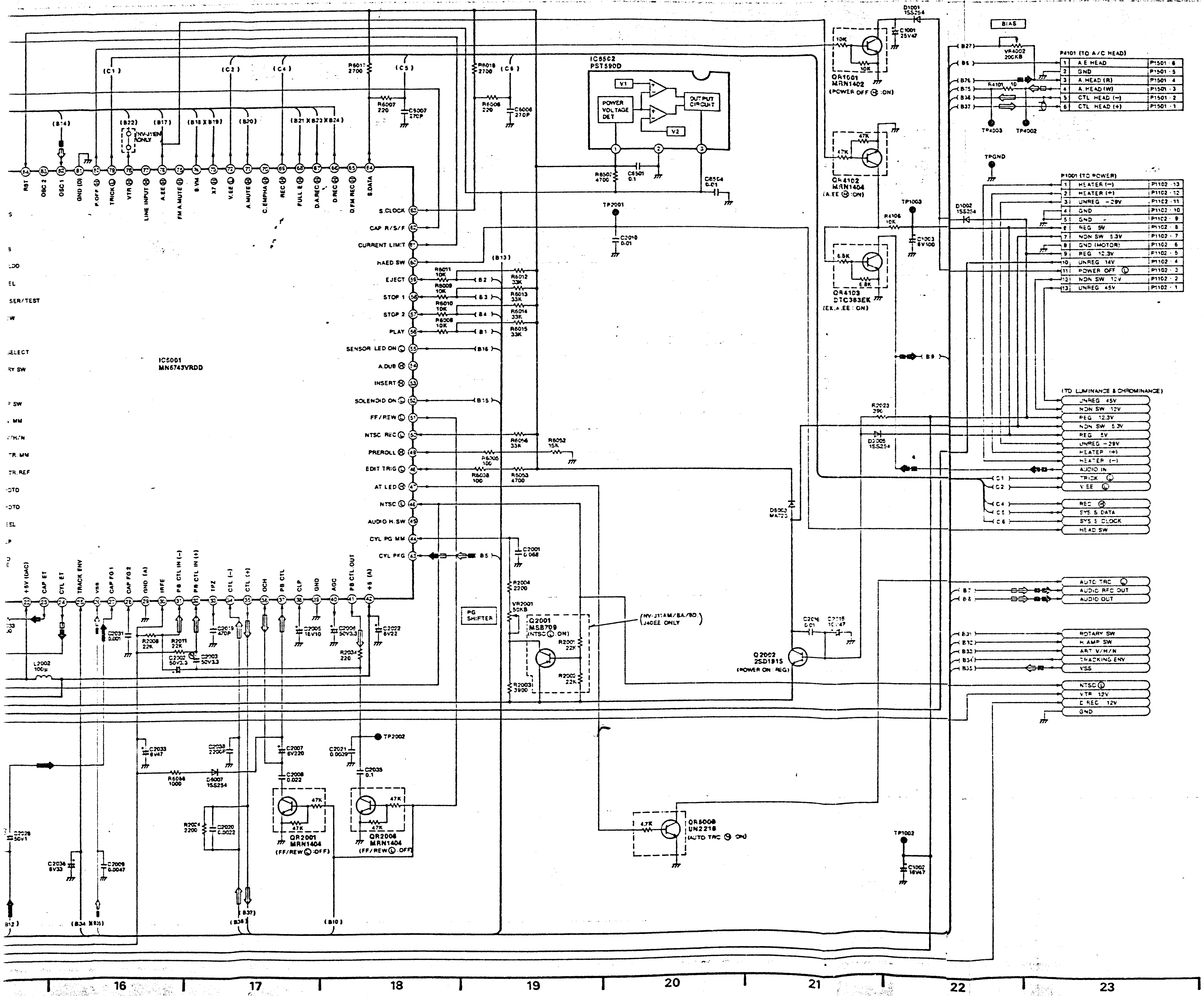
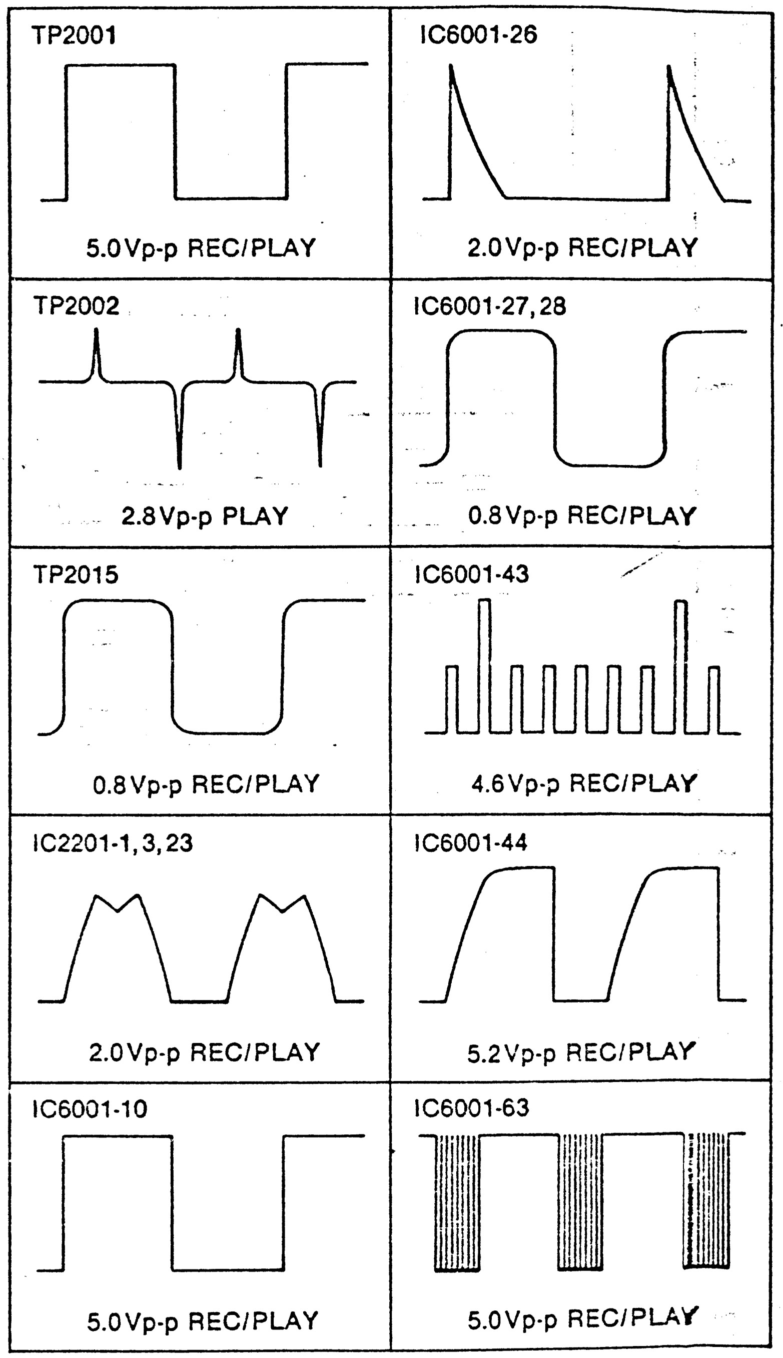


PHOTO TR.(T) C.B.A
PHOTO TR. (S) C.B.A (VEP00R11A)
Q1502 PN150
Q1501 PN150
P1508
P1503
P1507
P1512
PJ1502
FULL ERASE IN
FULL ERASE OUT
GND
S.PHOTO
CAS SW
T.PHOTO
F ERASE OUT
F ERASE IN
P6002
P6001
PHOTO SNS. +B
REEL PULSE (T)
REEL PULSE (S)
SAFETY TAB SW
SOLENOID (−)
GND (MOTOR)
SOLENOID (+)
SENSOR LED
PLAY POSI.
EJECT POSI.
STOP 1 POSI.
STOP 2 POSI.
P2001
SERVO 5V
PG/FG
CYL ET
GND (CYL)
MOTOR REG. 12V
P2002 (TO CAPSTAN MOTOR)
PEG 12.3V
GND (FG)
FG1
M1
M2
H3−
H3+
H2−
H2+
H1−
H1+
VH−
VH+
M3
DEW SENSOR
P6801
(TO SUB MAIN)
IC2201 XRA6435S
SATURATION DETECTOR
3 DIFFERENTIAL
3 PHASE GENERATOR
RATIO COMPOSITE
TORQUE DIRECTION CHANGE-OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
HALL POWER
TP2026
(NV-J11AM/SA/BD, J40EE ONLY)
QR2102 MRN1402 (SP: ON)
QR2101 MRN1407 (LP: ON)
QR2103 MRN1404 (PAL: ON)
Q2101 MSB709 (PAL/LP: ON)
D2104 MA151WA
IC6002 μPC358G2
IC6001 MN6743VRDD
CAMPS
DEW
S-TAB
TDD/LDD
S-REEL
NOR/SER/TEST
CAS SW
TEST
ENV SELECT
ROTARY SW
VDD
H.AMP SW
ART.V MM
ART.V/H/N
SLW TR MM
SLW TR.REF
T-PHOTO
S-PHOTO
T-REEL
SP/LP
AUDIO MODE SEL
TPGND2
TP2009
TPSERV
TP2015
L6001 VLP0074
L2002 100μ
P202 (TO CYLINDER MOTOR)
P201
THERMAL SHORT DOWN
POWER (NPN X3)
L201 100μ
5
6
7
8
9
10
11
12
13
14
15
16


IC5001
MN6743VRDD
IC6502
PST590D
POWER VOLTAGE DET
OUTPUT CIRCUIT
V1
V2
QR1001
MRN1402
(POWER OFF Ⓗ :ON)
D1001
1SS254
C1001
25V47
BIAS
VR4002
20KB
P4101 (TO A/C HEAD)
A.E HEAD
GND
A.HEAD (R)
A.HEAD (W)
CTL HEAD (−)
CTL HEAD (+)
TP4003
TP4002
TPGND
QR4102
MRN1404
(A.EE Ⓗ :ON)
QR4103
DTC383EK
(EX.A.EE : ON)
TP1003
C1003
6V100
D1002
1SS254
P1001 (TO POWER)
HEATER (−)
HEATER (+)
UNREG −29V
GND
REG 5V
GND
NON SW 5.3V
GND (MOTOR)
REG 12.3V
UNREG 14V
POWER OFF Ⓛ
NON SW 12V
UNREG 45V
(TO LUMINANCE & CHROMINANCE)
UNREG 45V
NON SW 12V
REG 12.3V
NON SW 5.3V
REG 5V
UNREG −29V
HEATER (+)
HEATER (−)
AUDIO IN
TRICK Ⓛ
V.EE Ⓛ
REC Ⓗ
SYS S DATA
SYS S CLOCK
HEAD SW
AUTO TRC Ⓛ
AUDIO RFC OUT
AUDIO OUT
ROTARY SW
H.AMP SW
ART V/H/N
TRACKING ENV
VSS
NTSC Ⓛ
VTR 12V
E.REC 12V
GND
S.CLOCK
CAP R/S/F
CURRENT LIMIT
HAED SW
EJECT
STOP 1
STOP 2
PLAY
SENSOR LED ON Ⓛ
A.DUB Ⓗ
INSERT Ⓗ
SOLENOID ON Ⓛ
FF/REW Ⓛ
NTSC REC Ⓛ
PREROLL Ⓗ
EDIT TRIG Ⓛ
AT LED Ⓗ
NTSC Ⓛ
AUDIO H.SW
CYL PG MM
CYL PFG
RST
OSC 2
OSC 1
GND (D)
P.OFF Ⓛ
TRICK Ⓛ
VTR Ⓗ
LINE INPUT Ⓗ
A.EE Ⓗ
FM A.MUTE Ⓗ
S.VM
X7 Ⓛ
V.EE Ⓛ
A.MUTE Ⓗ
C.EMPHA Ⓗ
REC Ⓗ
FULL E Ⓗ
D.AREC Ⓗ
D.REC Ⓗ
D.FM REC Ⓗ
S.DATA
+5V (DAC)
CAP ET
CYL ET
TRACK ENV
VSS
CAP FG 1
CAP FG 2
GND (A)
IRFE
PB CTL IN (−)
PB CTL IN (+)
TP2
CTL (−)
CTL (+)
OCH
PB CTL
CLP
GND
AGC
PB CTL OUT
+5 (A)
TP2001
TP2002
TP1002
PG SHIFTER
Q2001
MSB709
(NTSC Ⓛ :ON)
(NV-J11AM/BA/BD J4DEE ONLY)
Q2002
2SD1915
(POWER ON : REG)
D6003
MA723
QR5006
UN2216
(AUTO TRC Ⓗ :ON)
QR2001
MRN1404
(FF/REW Ⓛ :OFF)
QR2006
MRN1404
(FF/REW Ⓛ :OFF)
L2002
100μ
NV-J11EN ONLY
16
17
18
19
20
21
22
23

WAVEFORM OF SYSTEM CONTROL & SERVO



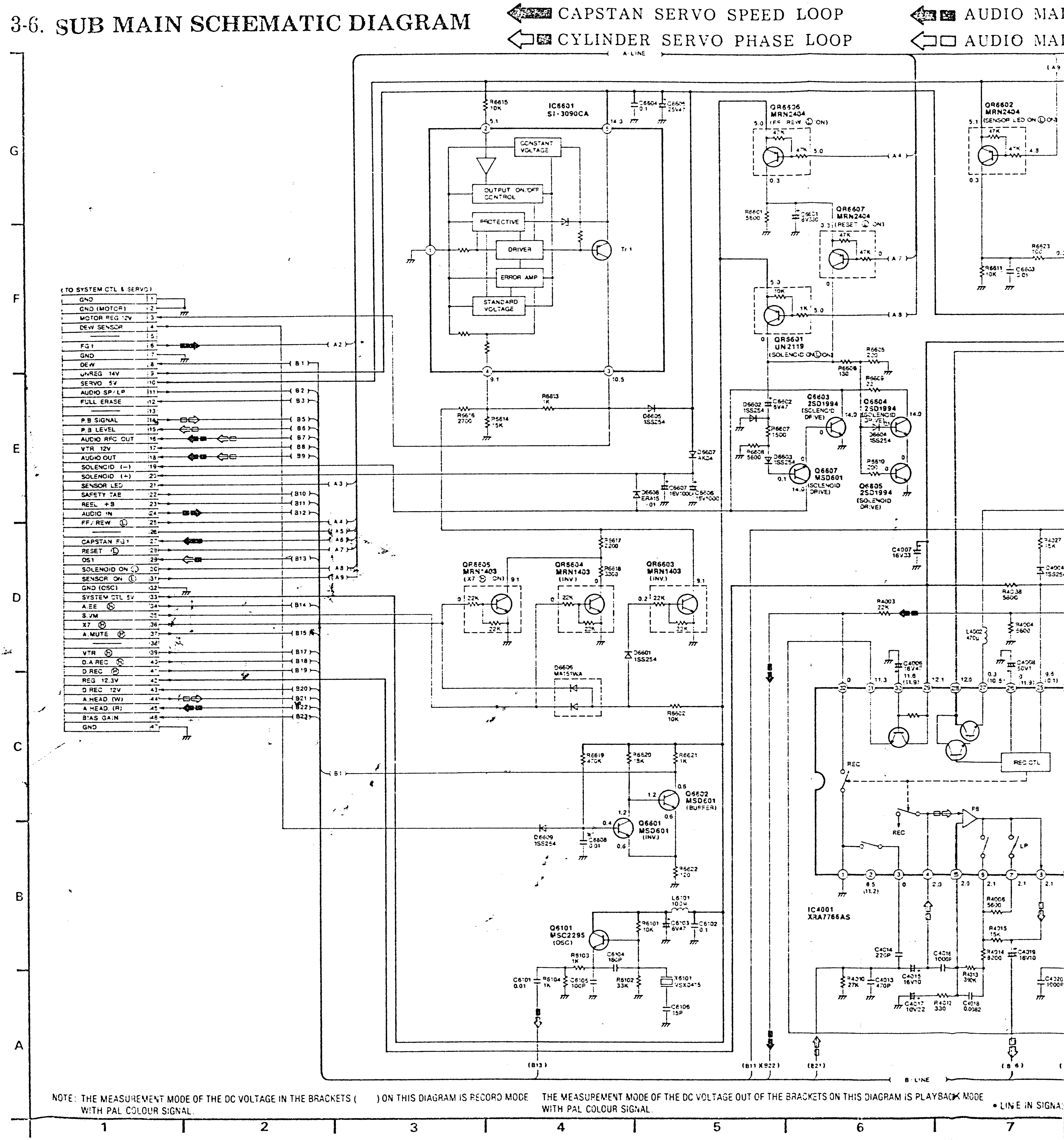
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART

REF. NO.	IC201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	13.9	13.9	0.1	0	0	2.6	4.4	0.7	0.5	1.1	5.1	4.3	4.3	3.9	4.9	13.9	13.9	0.1		
PLAY	10.3	10.3	0.1	0.6	0	2.6	2.5	0.6	0.5	2.7	5.1	3.7	3.7	3.7	1.2	10.5	10.3	0.1		
F.F.	13.9	13.9	0.1	0	0	2.6	4.4	0.7	0.5	1.1	5.1	4.3	4.3	3.9	4.9	13.9	13.9	0.1		
REF. NO.	IC2201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	7.5	0	7.5	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0	5.1	3.7	2.8	2.3	5.1	0	0.4	0
PLAY	3.0	0.1	2.6	1.3	2.2	2.2	2.2	2.2	2.2	2.2	0	0	5.1	3.8	2.8	2.5	5.1	0.6	0.4	0.1
F.F.	3.5	0.1	6.8	1.4	2.1	2.1	2.1	2.1	2.1	2.1	0	0	5.1	3.7	2.8	2.5	5.1	0.7	0.4	0.1
REF. NO.	IC2201																			
MODE	21	22	23	24																
STOP	0	0.6	7.5	13.9																
PLAY	0	0.6	3.0	10.5																
F.F.	0	0.6	6.5	13.9																
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0.6	0.5	5.0	0.6	5.0	2.0	0	0.1	5.0	5.0	0	0	0	0	2.5	3.2	0	4.2	0
PLAY	0	0.6	0.5	5.0	3.9	5.0	2.0	0	4.6	4.6	5.0	0	0	0	0	2.5	3.2	3.2	4.2	0
F.F.	0	0.6	0.5	5.0	2.5	5.0	2.0	0	0	5.0	5.0	0	0	0	0	2.5	3.2	3.2	2.7	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	5.0	2.3	4.2	1.6	2.5	2.5	2.5	0	0	2.4	2.6	5.0	0	0	0	2.5	2.5	0	2.5
PLAY	5.0	5.0	2.6	2.5	0	2.5	2.5	2.5	0	0	0	0	5.0	0	0	0	2.5	2.5	0	2.9
F.F.	5.0	5.0	2.5	4.2	1.6	2.5	2.5	2.5	0	2.5	0	2.6	5.0	0	0	0	2.5	2.5	0	2.9
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	2.5	5.0	5.1	0.1	0	0.1	0	5.0	0	5.0	5.0	5.0	0	0	4.8	5.0	5.0	0	4.8	0
PLAY	0	5.0	1.0	3.0	0.6	0.1	4.9	5.0	0	5.0	5.0	5.0	0	0	5.0	0	5.0	5.0	4.8	5.0
F.F.	2.4	5.0	5.1	0.1	0	0.1	0	5.0	0	5.0	0	5.0	0	0	4.8	5.0	5.0	0	4.8	0
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	5.0	2.1	4.5	4.8	0	0	0	0	0.2	0	0	0	5.0	5.0	0	5.0	5.0	0	0	0
PLAY	5.0	0	4.7	4.8	0	0	0	0	0.2	0	0	5.0	0	0	0	0	5.0	5.0	5.0	0
F.F.	5.0	0	4.7	4.8	0	0	0	0	0	0	0	0	5.0	5.0	0	5.0	5.0	0	0	0
REF. NO.	IC6001																			
MODE	81	82	83	84																
STOP	0	2.4	2.4	4.8																
PLAY	0	2.4	2.4	4.8																
F.F.	0	2.4	2.4	0																
REF. NO.	IC6002										IC6502									
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	2.5	2.5	2.5	0	2.5	4.6	0.6	5.0			5.0	0	4.8							
PLAY	2.5	2.5	2.5	0	2.6	4.7	3.8	5.0			5.0	0	4.8							
F.F.	2.5	2.5	2.5	0	2.5	2.4	2.5	5.0			5.0	0	5.0							

SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART

REF. NO.	Q2001			Q2002			Q2101											
MODE	E	C	B	E	C	B	E	C	B									
STOP	5.1	5.1	4.4	5.1	5.4	5.8	5.1	0.3	4.5									
PLAY	5.1	0	4.5	5.1	5.4	5.8	5.1	0	4.5									
F.F.	5.1	5.1	4.4	5.1	5.4	5.8	5.1	0.1	4.7									
REF. NO.	QR1001			QR2001			QR2006			QR2101			QR2102			QR2103		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	13.1	0	0	0	5.0	0	0	5.0	0	4.7	0	0	0.1	4.7	0	4.2	0.1
PLAY	0	13.1	0	0	0	5.0	0	0	5.0	0	4.7	0	0	0.1	4.7	0	4.2	0.1
F.F.	0	13.1	0	0	0	0	0	0.8	0	0	4.7	0	0	0.1	4.7	0	4.2	0.1
REF. NO.	QR4102			QR4103			QR6006											
MODE	E	C	B	E	C	B	E	C	B									
STOP	0	0	5.0	0	0	0	0	3.6	0									
PLAY	0	2.2	0	0	0	2.2	0	0.1	4.9									
F.F.	0	0	5.0	0	0	0	0	3.6	0									

3-6. SUB MAIN SCHEMATIC DIAGRAM


CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
AUDIO MA
AUDIO MA
A-LINE
B-LINE
(TO SYSTEM CTL & SERVO)
GND
GND (MOTOR)
MOTOR REG 12V
DEW SENSOR
FG1
GND
DEW
UNREG 14V
SERVO 5V
AUDIO SP/LP
FULL ERASE
P.B SIGNAL
P.B LEVEL
AUDIO RFC OUT
VTR 12V
AUDIO OUT
SOLENOID (−)
SOLENOID (+)
SENSOR LED
SAFETY TAB
REEL +B
AUDIO IN
FF/REW Ⓛ
CAPSTAN FG1
RESET Ⓛ
OS1
SOLENOID ON Ⓛ
SENSOR ON Ⓛ
GND (OSC)
SYSTEM CTL 5V
A.EE Ⓢ
S.VM
X7 Ⓟ
A.MUTE Ⓟ
VTR Ⓢ
D.A REC Ⓡ
D.REC Ⓟ
REG 12.3V
D.REC 12V
A.HEAD (W)
A.HEAD (R)
BIAS GAIN
GND
IC6601
SI-3090CA
CONSTANT VOLTAGE
OUTPUT ON/OFF CONTROL
PROTECTIVE
DRIVER
ERROR AMP
STANDARD VOLTAGE
Tr1
QR6606
MRN2404
QR6607
MRN2404
QR6601
UN2119
Q6603
2SD1994
Q6604
2SD1994
Q6607
MSD601
Q6605
2SD1994
QR6605
MRN1403
QR6604
MRN1403
QR6603
MRN1403
Q6602
MSD601
Q6601
MSD601
Q6101
MSC2295
(OSC)
IC4001
XRA7766AS
QR6602
MRN2404
REC
REC CTL
FB
LP
A
B
C
D
E
F
G
1
2
3
4
5
6
7

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. WITH PAL COLOUR SIGNAL.

• LINE IN SIGNA

	17	18		
9	13.9	0.1		
5	10.3	0.1		
9	13.9	0.1		

	17	18	19	20
	5.1	0	0.4	0
	5.1	0.6	0.4	0.1
	5.1	0.7	0.4	0.1

	17	18	19	20
	3.2	0	4.2	0
	3.2	3.2	4.2	0
	3.2	3.2	2.7	0

	37	38	39	40
	2.5	2.5	0	2.5
	2.5	2.5	0	2.9
	2.5	2.5	0	2.9

	57	58	59	60
	5.0	0	4.8	0
	5.0	5.0	4.8	5.0
	5.0	0	4.8	0

	77	78	79	80
	5.0	0	0	0
	5.0	5.0	5.0	0
	5.0	0	0	0

HART

QR2103		
	C	B
	4.2	0.1
	4.2	0.1
	4.2	0.1

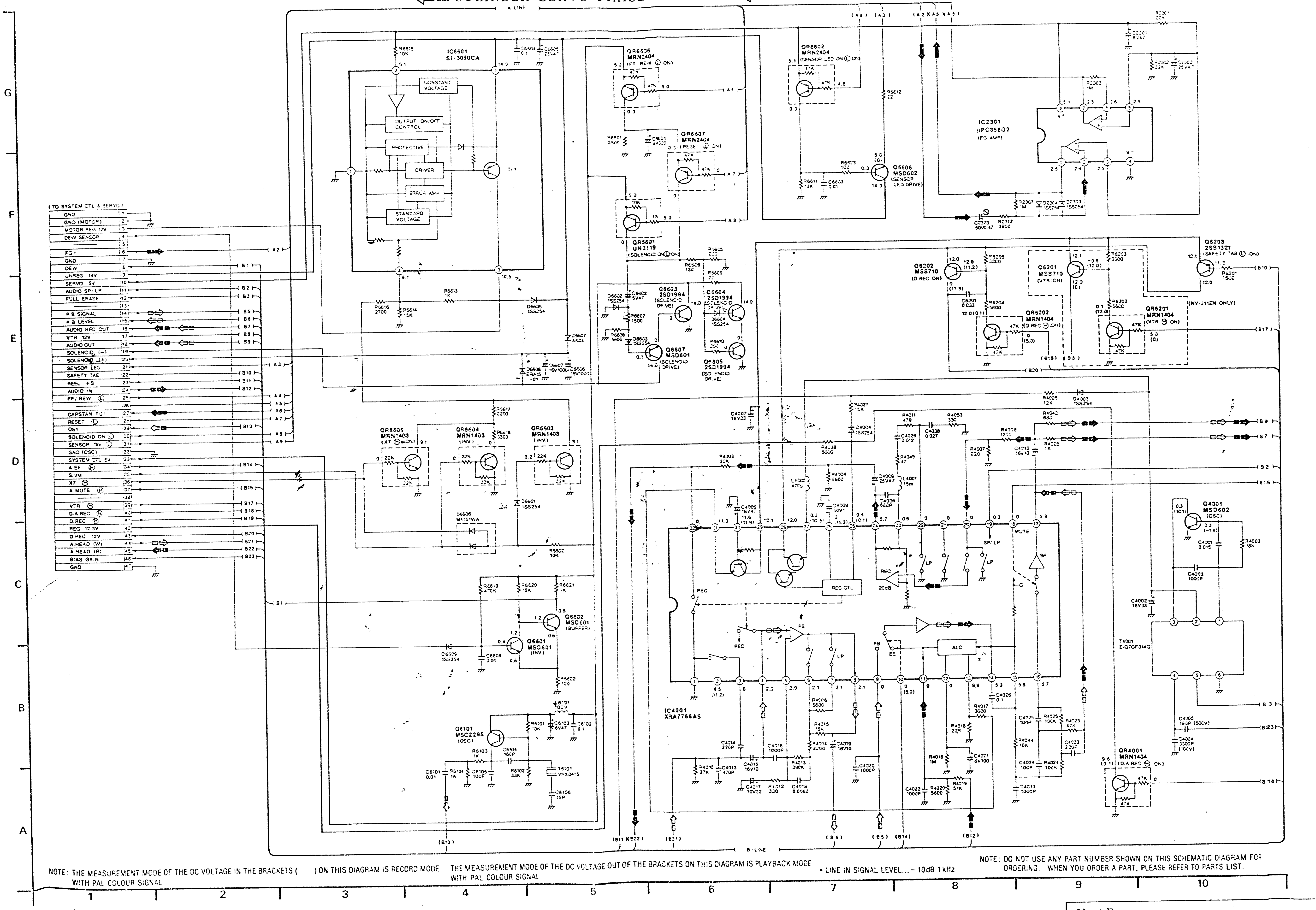
3-6. SUB MAIN SCHEMATIC DIAGRAM

CAPSTAN SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP

AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



(TO SYSTEM CTL & SERVO)
1 GND
2 GND (MOTOR)
3 MOTOR REG 12V
4 DEW SENSOR
6 FG1
7 GND
8 DEW
9 UNREG 14V
10 SERVO 5V
11 AUDIO SP/LP
12 FULL ERASE
14 P.B SIGNAL
15 P.B LEVEL
16 AUDIO RFC OUT
17 VTR 12V
18 AUDIO OUT
19 SOLENOID (−)
20 SOLENOID (+)
21 SENSOR LED
22 SAFETY TAB
23 REEL +9
24 AUDIO IN
25 FF/REW Ⓛ
27 CAPSTAN FG1
28 RESET Ⓛ
29 OS1
30 SOLENOID ON Ⓛ
31 SENSOR ON Ⓛ
32 GND (OSC)
33 SYSTEM CTL 5V
34 A.EE Ⓗ
35 S.VM
36 X7 Ⓗ
37 A.MUTE Ⓗ
39 VTR Ⓗ
40 D.A REC Ⓗ
41 D.REC Ⓗ
42 REG 12.3V
43 D.REC 12V
44 A.HEAD (W)
45 A.HEAD (R)
46 BIAS GAIN
47 GND
A LINE
B LINE
IC6601 SI-3090CA
CONSTANT VOLTAGE
OUTPUT ON/OFF CONTROL
PROTECTIVE
DRIVER
ERROR AMP
STANDARD VOLTAGE
Tr1
QR6606 MRN2404 (FF, REW Ⓛ ON)
QR6607 MRN2404 (RESET Ⓛ ON)
QR6601 UN2119 (SOLENOID ON Ⓛ ON)
Q6603 2SD1994 (SOLENOID DRIVE)
Q6604 2SD1994 (SOLENOID DRIVE)
Q6605 2SD1994 (SOLENOID DRIVE)
Q6607 MSD601 (SOLENOID DRIVE)
QR6602 MRN2404 (SENSOR LED ON Ⓛ ON)
Q6606 MSD602 (SENSOR LED DRIVE)
IC2301 μPC358G2 (FG AMP)
Q6202 MS8710 (D.REC ON)
Q6201 MS8710 (VTR ON)
Q6203 2SB1321 (SAFETY TAB Ⓛ ON)
QR6202 MRN1404 (D.REC Ⓗ ON)
QR6201 MRN1404 (VTR Ⓗ ON)
(NV-J11EN ONLY)
QR6605 MRN1403 (X7 Ⓗ ON)
QR6604 MRN1403 (INV)
QR6603 MRN1403 (INV)
D6606 MA151WA
Q6602 MSD601 (BUFFER)
Q6601 MSD601 (INV)
Q6101 MSC2295 (OSC)
X6101 VSX0415
IC4001 XRA7766AS
REC CTL
ALC
MUTE
SP/LP
REC
LP
FS
EE
SF
Q4001 MSD602 (OSC)
T4001 EIQ70F014Q
QR4001 MRN1404 (D.A REC Ⓗ ON)
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

• LINE IN SIGNAL LEVEL... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
LUMINANCE & CHROMINANCE Section

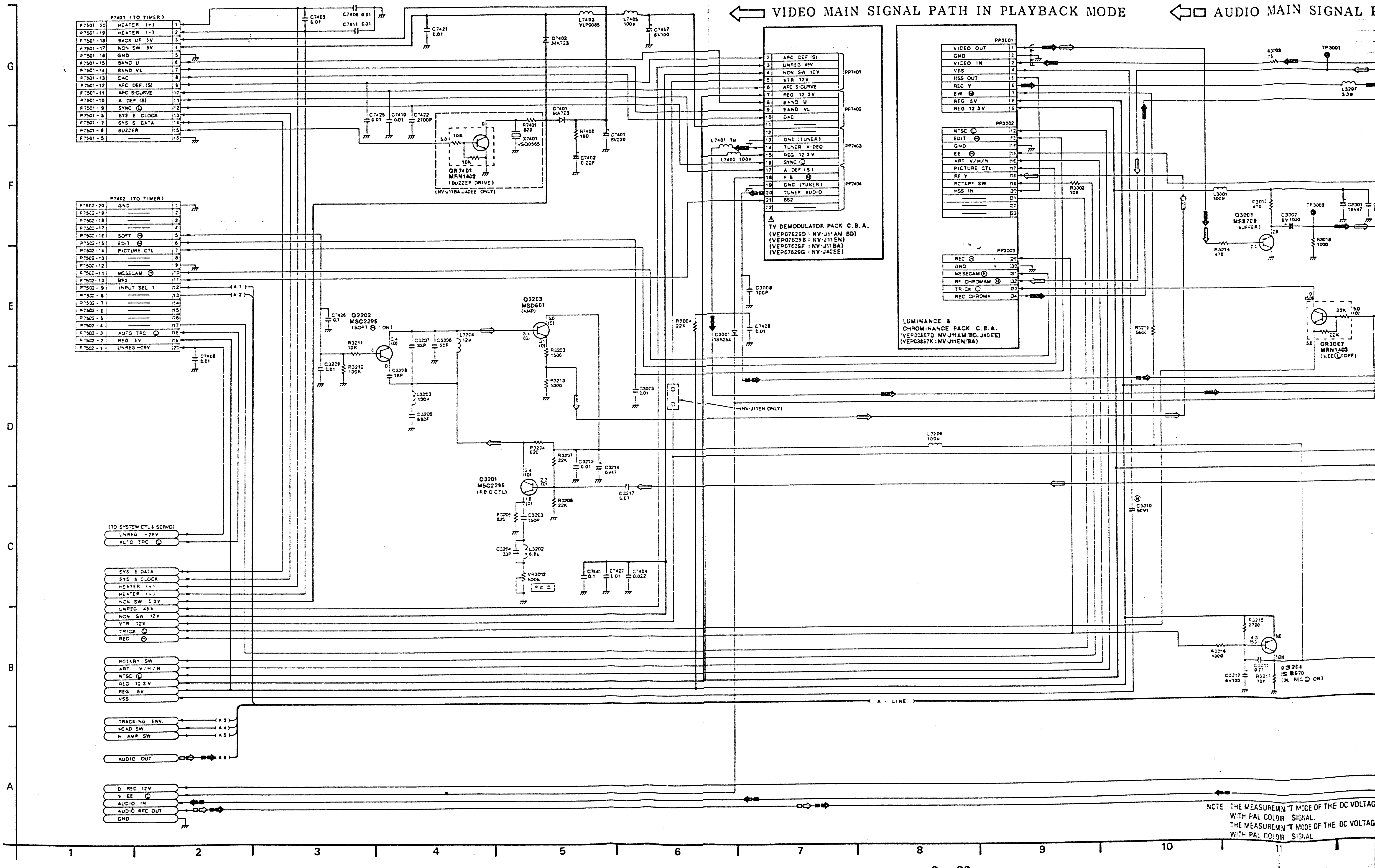
3-7. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL

AUDIO MAIN SIGNAL



P7401 (TO TIMER)
F7501-20 HEATER (+) 1
F7501-19 HEATER (−) 2
F7501-18 BACK UP 5V 3
F7501-17 NON SW 5V 4
F7501-16 GND 5
F7501-15 BAND U 6
F7501-14 BAND VL 7
F7501-13 DAC 8
F7501-12 AFC DEF (S) 9
F7501-11 AFC S-CURVE 10
F7501-10 A DEF (S) 11
F7501-9 SYNC 12
F7501-8 SYS S CLOCK 13
F7501-7 SYS S DATA 14
F7501-6 BUZZER 15
F7501-5 16
P7402 (TO TIMER)
F7502-20 GND 1
F7502-16 SOFT 5
F7502-15 EDIT 6
F7502-14 PICTURE CTL 7
F7502-11 MESECAM 10
F7502-10 BS2 11
F7502-9 INPUT SEL 1 12
F7502-3 AUTO TRC 18
F7502-2 REG 5V 19
F7502-1 UNREG −29V 20
A1
A2
C7403 0.01
C7406 0.01
C7411 0.01
C7421 0.01
D7402 MA723
L7403 VLP0085
L7405 100μ
C7407 6V100
C7425 0.01
C7410 0.01
C7422 2700P
R7401 820
X7401 VSQ0565
QR7401 MRN1402 (BUZZER DRIVE)
(NV-J11BA/J40EE ONLY)
D7401 MA723
R7402 180
C7401 6V220
C7402 0.22F
C7408 0.01
C7426 0.1
Q3202 MSC2295 (SOFT ON)
R3211 10K
C3209 0.01
R3212 100K
C3207 33P
C3206 22P
L3204 12μ
C3208 18P
L3203 100μ
C3205 680F
Q3203 MSD601 (AMP)
R3223 150Ω
R3213 100Ω
C3003 0.01
(NV-J11EN ONLY)
R3204 820
R3207 22K
C3213 0.01
C3214 6V47
Q3201 MSC2295 (P.B.C CTL)
R3205 820
C3203 150P
R3208 22K
C3217 0.01
C3204 33P
L3202 6.8μ
VR3012 500Ω
P.E.C
C7441 0.1
C7427 0.01
C7404 0.022
L7401 1μ
L7402 100μ
2 AFC DEF (S)
3 UNREG 45V
4 NON SW 12V
5 VTR 12V
6 AFC S-CURVE
7 REG 12 3V
8 BAND U
9 BAND VL
10 DAC
13 GND (TUNER)
14 TUNER VIDEO
15 REG 12 3V
16 SYNC
17 A DEF (S)
18 P B
19 GND (TUNER)
20 TUNER AUDIO
21 BS2
PP7401
PP7402
PP7403
PP7404
TV DEMODULATOR PACK C.B.A.
(VEP07629D: NV-J11AM/BD)
(VEP07629B: NV-J11EN)
(VEP07629F: NV-J11BA)
(VEP07629G: NV-J40EE)
R3004 22K
D3001 1SS254
C3008 100P
C7428 0.01
PP3001
VIDEO OUT 1
GND 2
VIDEO IN 3
VSS 4
HSS OUT 5
REC Y 6
BW 7
REG 5V 8
REG 12 3V 9
PP3002
NTSC 12
EDIT 13
GND 14
EE 15
ART V/H/N 16
PICTURE CTL 17
RF Y 18
ROTARY SW 19
HSS IN 20
PP3003
REC 29
GND 30
MESECAM 31
RF CHROMA 32
TRICK 33
REC CHROMA 34
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03857D: NV-J11AM/BD, J40EE)
(VEP03857K: NV-J11EN/BA)
R3002 10K
R3003 75
TP3001
L3207 33μ
L3001 100μ
R3012 470
Q3001 MSB709 (BUFFER)
R3014 470
C3002 6V100
TP3002
C3001 16V47
R3018 1000
QR3007 MRN1403 (VEE OFF)
R3215 560Ω
L3206 100μ
C3010 50V1
R3215 2700
R3216 1000
C3211 0.01
C2212 6V100
R3217 10K
Q3204 2SB970 (EX REC ON)
(TO SYSTEM CTL & SERVO)
UNREG −29V
AUTO TRC
SYS S DATA
SYS S CLOCK
HEATER (+)
HEATER (−)
NON SW 5.3V
UNREG 45V
NON SW 12V
VTR 12V
TRICK
REC
ROTARY SW
ART V/H/N
NTSC
REG 12 3V
REG 5V
VSS
A - LINE
TRACKING ENV
HEAD SW
H. AMP SW
A3
A4
A5
AUDIO OUT
A6
D REC 12V
V EE
AUDIO IN
AUDIO REC OUT
GND
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

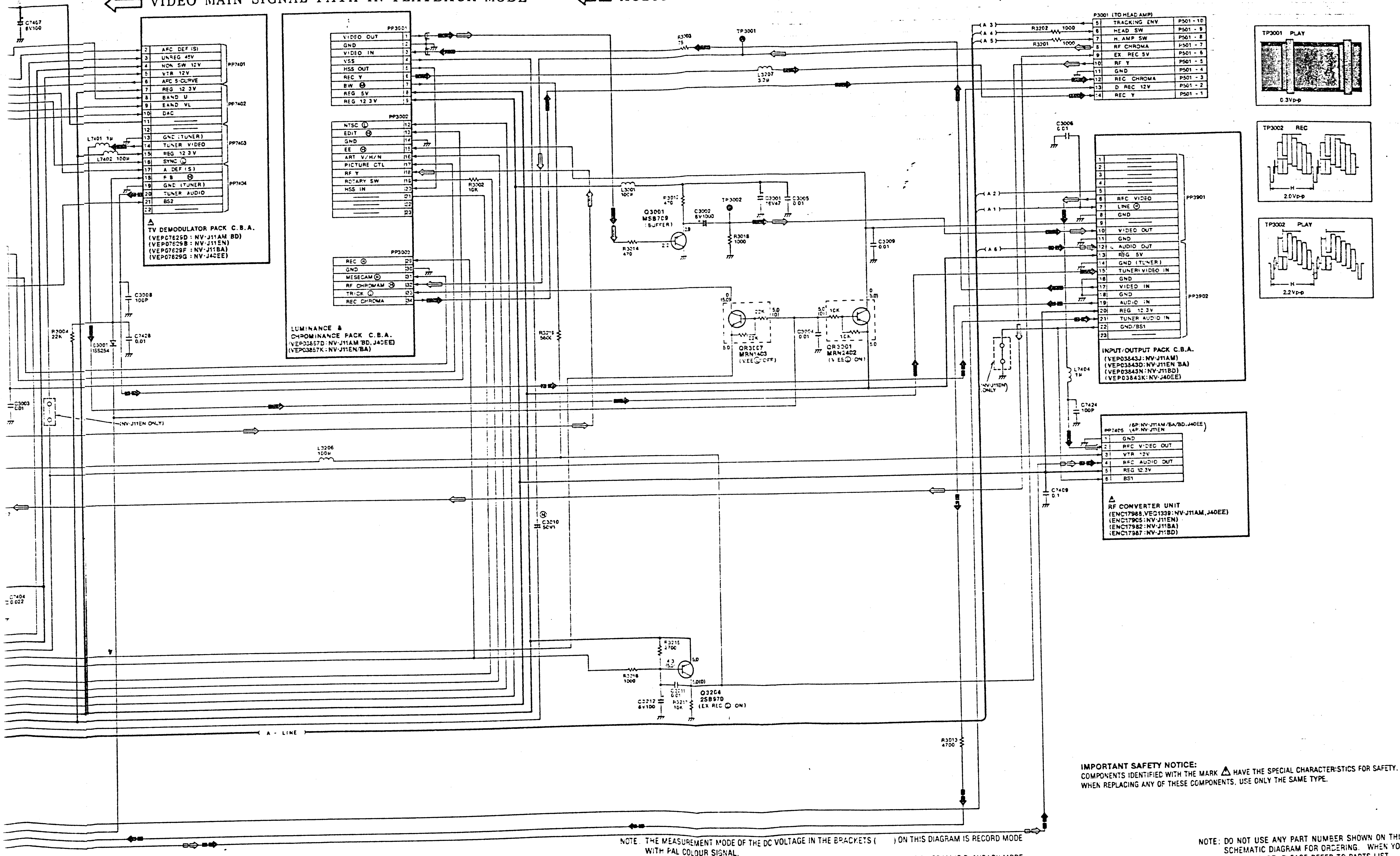
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAG
WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAG
WITH PAL COLOUR SIGNAL

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

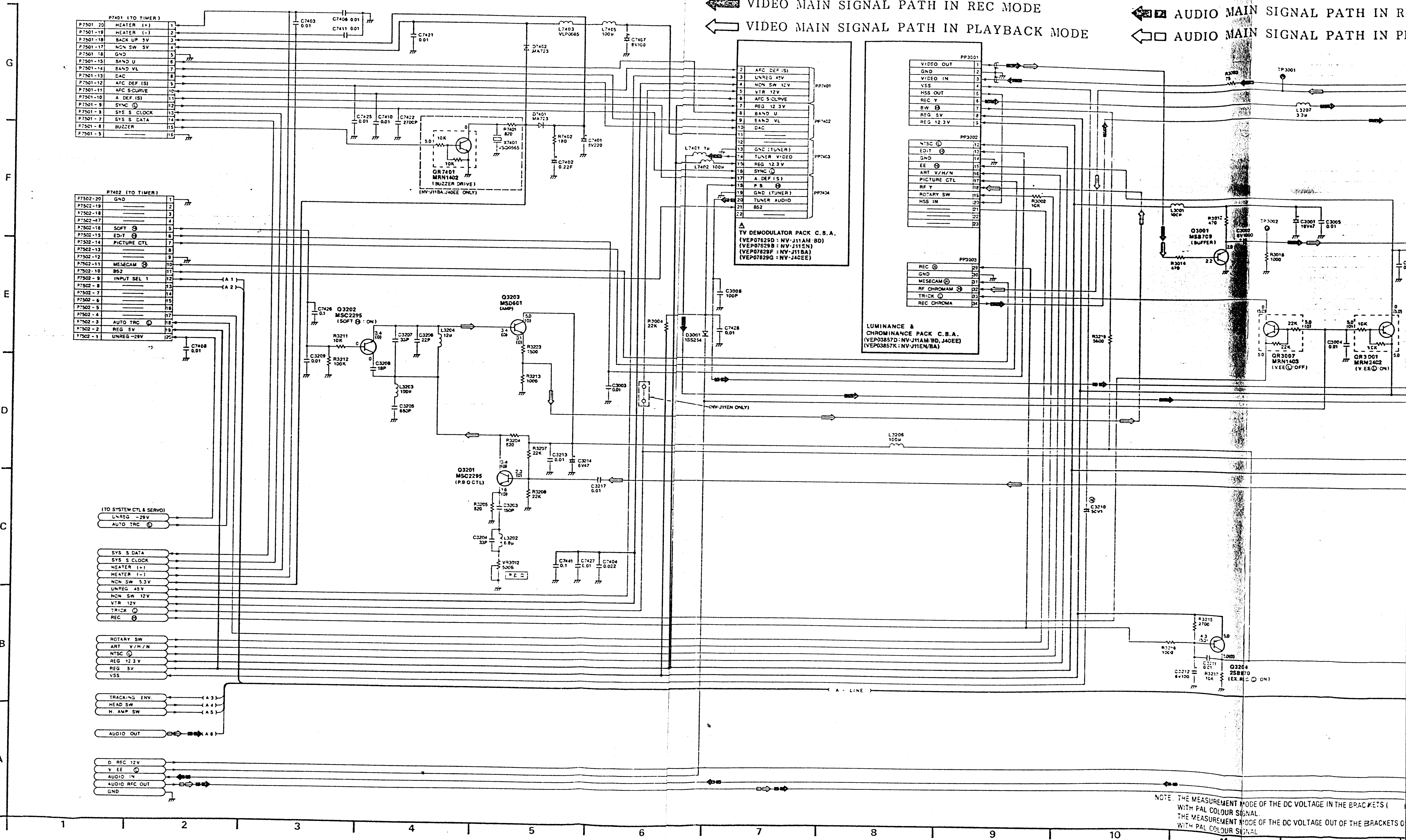

C7407 6V100
AFC DEF (S)
UNREG 45V
NON SW 12V
VTR 12V
AFC S-CURVE
REG 12.3V
BAND U
BAND VL
DAC
GND (TUNER)
TUNER VIDEO
REG 12.3V
SYNC
A DEF (S)
F B
GND (TUNER)
TUNER AUDIO
BS2
PP7401
PP7402
PP7403
PP7404
L7401 1H
L7402 100H
TV DEMODULATOR PACK C.B.A.
(VEP07629D : NV-J11AM, BD)
(VEP07629B : NV-J11EN)
(VEP07629F : NV-J11BA)
(VEP07629G : NV-J40EE)
PP3001
VIDEO OUT
GND
VIDEO IN
VSS
HSS OUT
REC Y
BW
REG 5V
REG 12.3V
PP3002
NTSC
EDIT
GND
EE
ART V/H/N
PICTURE CTL
RF Y
ROTARY SW
HSS IN
PP3003
REC
GND
MESECAM
RF CHROMAM
TRICK
REC CHROMA
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03857D : NV-J11AM, BD, J40EE)
(VEP03857K : NV-J11EN/BA)
C3008 100P
C7428 0.01
R3004 22K
D3001 1SS254
C3003 0.01
(NV-J11EN ONLY)
L3206 100H
C7404 0.022
R3203 75
TP3001
L3207 3.3H
L3201 10H
R3002 10K
R3012 470
Q3001 MSB709 (BUFFER)
R3014 470
C3002 6V1000
TP3002
C3001 16V47
C3005 0.01
R3018 1000
C3009 0.01
QR3007 MRN1403 (VEE OFF)
QR3001 MRN2402 (VEE ON)
C3004 0.01
R3219 560K
C3010 50V1
R3215 2700
R3216 1000
C3211 0.01
C3212 6V100
R3217 10K
Q3204 2SB970 (EX REC ON)
A - LINE
R3013 4700
P3001 (TO HEAD AMP)
TRACKING ENV
HEAD SW
H. AMP SW
RF CHROMA
EX. REC 5V
RF Y
GND
REC CHROMA
D REC 12V
REC Y
P501 - 10
P501 - 9
P501 - 8
P501 - 7
P501 - 6
P501 - 5
P501 - 4
P501 - 3
P501 - 2
P501 - 1
R3202 1000
R3201 1000
C3006 0.01
RFC VIDEO
LINE
GND
VIDEO OUT
GND
AUDIO OUT
REG 5V
GND (TUNER)
TUNER VIDEO IN
GND
VIDEO IN
GND
AUDIO IN
REG 12.3V
TUNER AUDIO IN
GND/BS1
PP3901
PP3902
INPUT/OUTPUT PACK C.B.A.
(VEP03843J : NV-J11AM)
(VEP03843D : NV-J11EN/BA)
(VEP03843N : NV-J11BD)
(VEP03843K : NV-J40EE)
(NV-J11EN) ONLY
L7404 1H
C7424 100P
PP7405
(6P: NV-J11AM/BA/BD, J40EE)
(4P: NV-J11EN)
GND
RFC VIDEO OUT
VTR 12V
RFC AUDIO OUT
REG 12.3V
BS1
C7409 0.1
RF CONVERTER UNIT
(ENC17988, VEC1339 : NV-J11AM, J40EE)
(ENC17905 : NV-J11EN)
(ENC17982 : NV-J11BA)
(ENC17987 : NV-J11BD)
TP3001 PLAY
0.3Vp-p
TP3002 REC
2.0Vp-p
TP3002 PLAY
2.2Vp-p

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-7. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM


P7401 (TO TIMER)
HEATER (+)
HEATER (-)
BACK UP 5V
NON SW 5V
GND
BAND U
BAND VL
DAC
AFC DEF (S)
AFC S-CURVE
A DEF (S)
SYNC
SYS S CLOCK
SYS S DATA
BUZZER
QR7401
MRN1402
(BUZZER DRIVE)
(NV-J11BA/J40EE ONLY)
X7401
P7402 (TO TIMER)
SOFT
EDIT
PICTURE CTL
MESECAM
BS2
INPUT SEL 1
AUTO TRC
REG 5V
UNREG -29V
Q3202
MSC2295
(SOFT : ON)
Q3203
MSD601
(AMP)
Q3201
MSC2295
(P.B.O CTL)
VR3012
500B
TV DEMODULATOR PACK C.B.A.
(VEP07629D : NV-J11AM/BD)
(VEP07629B : NV-J11EN)
(VEP07629F : NV-J11BA)
(VEP07629G : NV-J40EE)
AFC DEF (S)
UNREG 45V
NON SW 12V
VTR 12V
AFC S-CURVE
REG 12.3V
BAND U
BAND VL
DAC
GND (TUNER)
TUNER VIDEO
REG 12.3V
SYNC
A DEF (S)
P.B
GND (TUNER)
TUNER AUDIO
BS2
PP7401
PP7402
PP7403
PP7404
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03857D : NV-J11AM/BD, J40EE)
(VEP03857K : NV-J11EN/BA)
PP3001
VIDEO OUT
GND
VIDEO IN
VSS
HSS OUT
REC Y
BW
REG 5V
REG 12.3V
PP3002
NTSC
EDIT
GND
EE
ART V/H/N
PICTURE CTL
RF Y
ROTARY SW
HSS IN
PP3003
REC
GND
MESECAM
RF CHROMAM
TRICK
REC CHROMA
D3001
1SS254
(NV-J11EN ONLY)
Q3001
MSB709
(BUFFER)
TP3001
TP3002
QR3007
MRN1403
(V.EE OFF)
QR3001
MRN2402
(V.EE ON)
Q3204
2SB970
(EX.REC ON)
(TO SYSTEM CTL & SERVO)
UNREG -29V
AUTO TRC
SYS S DATA
SYS S CLOCK
HEATER (+)
HEATER (-)
NON SW 5.3V
UNREG 45V
NON SW 12V
VTR 12V
TRICK
REC
ROTARY SW
ART V/H/N
NTSC
REG 12.3V
REG 5V
VSS
TRACKING ENV.
HEAD SW
H. AMP SW
AUDIO OUT
D. REC 12V
V. EE
AUDIO IN
AUDIO REC OUT
GND
A - LINE
A1
A2
A3
A4
A5
A6
1
2
3
4
5
6
7
8
9
10
11
12
G
F
E
D
C
B
A

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

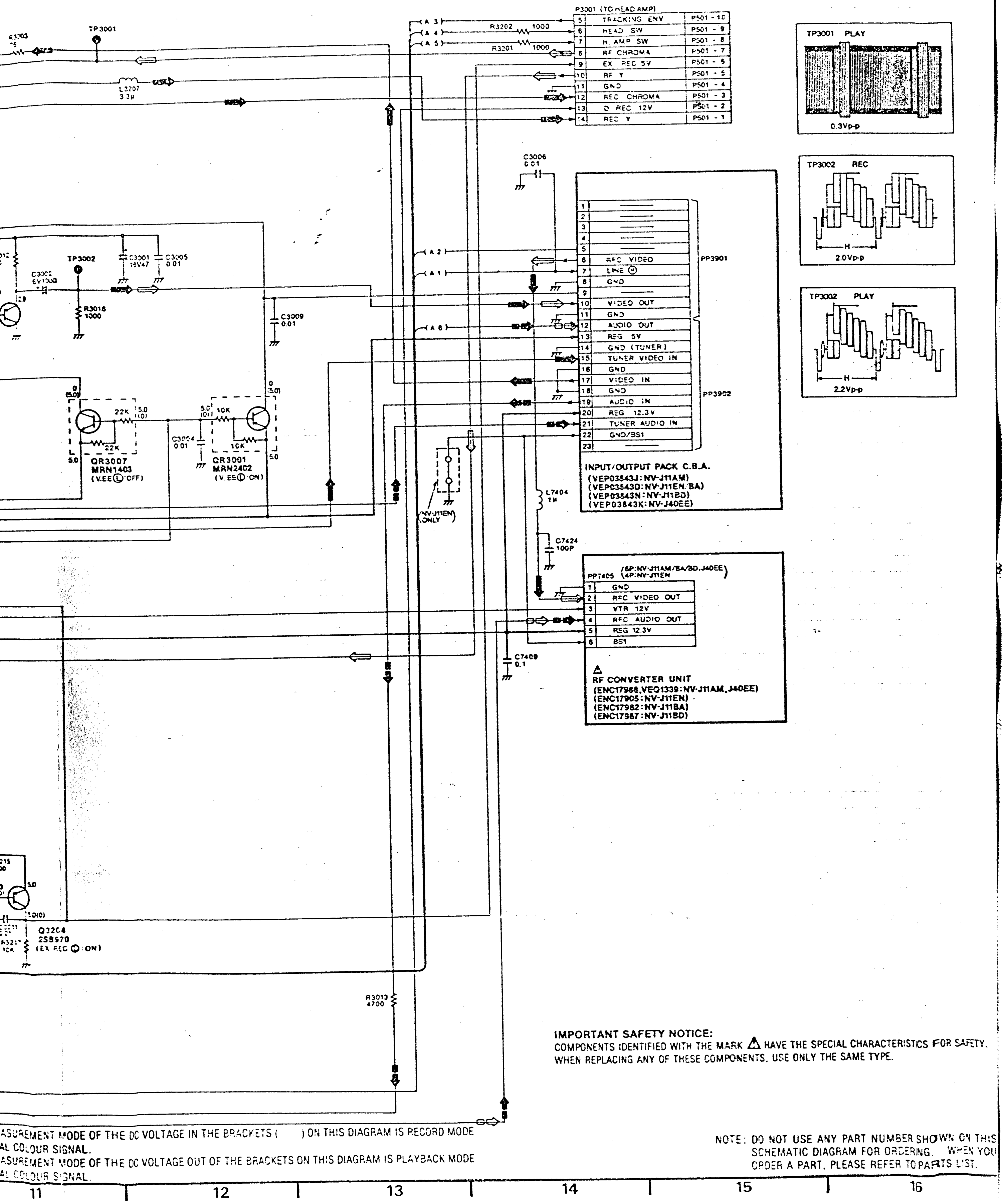
AUDIO MAIN SIGNAL PATH IN R

AUDIO MAIN SIGNAL PATH IN P

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (
WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS O
WITH PAL COLOUR SIGNAL.

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

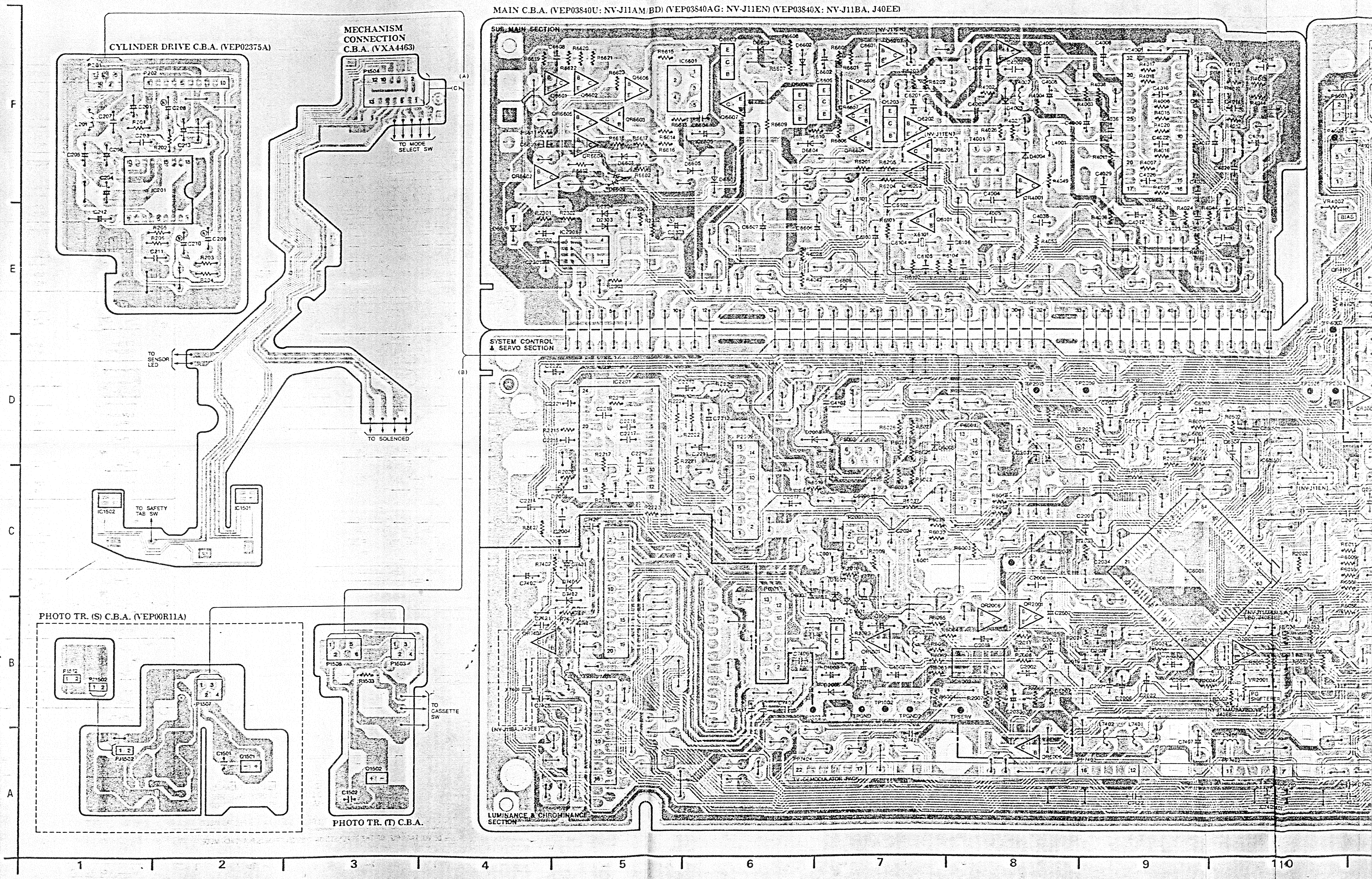

P3001 (TO HEAD AMP)
5 TRACKING ENV P501 - 10
6 HEAD SW P501 - 9
7 H. AMP SW P501 - 8
8 RF CHROMA P501 - 7
9 EX. REC 5V P501 - 6
10 RF Y P501 - 5
11 GND P501 - 4
12 REC CHROMA P501 - 3
13 D. REC 12V P501 - 2
14 REC Y P501 - 1
A 3
A 4
A 5
A 2
A 1
A 6
R3202 1000
R3201 1000
R3203
TP3001
L3207 3.3μ
C3006 0.01
TP3002
C3002 6V1000
R3016 1000
C3001 16V47
C3005 0.01
C3009 0.01
22K
22K
5.0 (0)
0 (5.0)
5.0
QR3007 MRN1403 (V.EE Ⓛ OFF)
C3004 0.01
10K
10K
QR3001 MRN2402 (V.EE Ⓛ ON)
1
2
3
4
5
6 REC VIDEO
7 LINE Ⓜ
8 GND
9
10 VIDEO OUT
11 GND
12 AUDIO OUT
13 REG 5V
14 GND (TUNER)
15 TUNER VIDEO IN
16 GND
17 VIDEO IN
18 GND
19 AUDIO IN
20 REG 12.3V
21 TUNER AUDIO IN
22 GND/BS1
23
PP3901
PP3902
INPUT/OUTPUT PACK C.B.A.
(VEP03843J:NV-J11AM)
(VEP03843D:NV-J11EN/BA)
(VEP03843N:NV-J11BD)
(VEP03843K:NV-J40EE)
(NV-J11EN ONLY)
L7404 1H
C7424 100P
PP7405 (6P:NV-J11AM/BA/BD.J40EE) (4P:NV-J11EN)
1 GND
2 RFC VIDEO OUT
3 VTR 12V
4 RFC AUDIO OUT
5 REG 12.3V
6 BS1
C7409 0.1
RF CONVERTER UNIT
(ENC17988,VEQ1339:NV-J11AM,J40EE)
(ENC17905:NV-J11EN)
(ENC17982:NV-J11BA)
(ENC17387:NV-J11BD)
Q3204 2SB570 (EX REC Ⓗ:ON)
5.0
5.0(0)
R3013 4700
TP3001 PLAY
0.3Vp-p
TP3002 REC
H
2.0Vp-p
TP3002 PLAY
H
2.2Vp-p
11
12
13
14
15
16

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

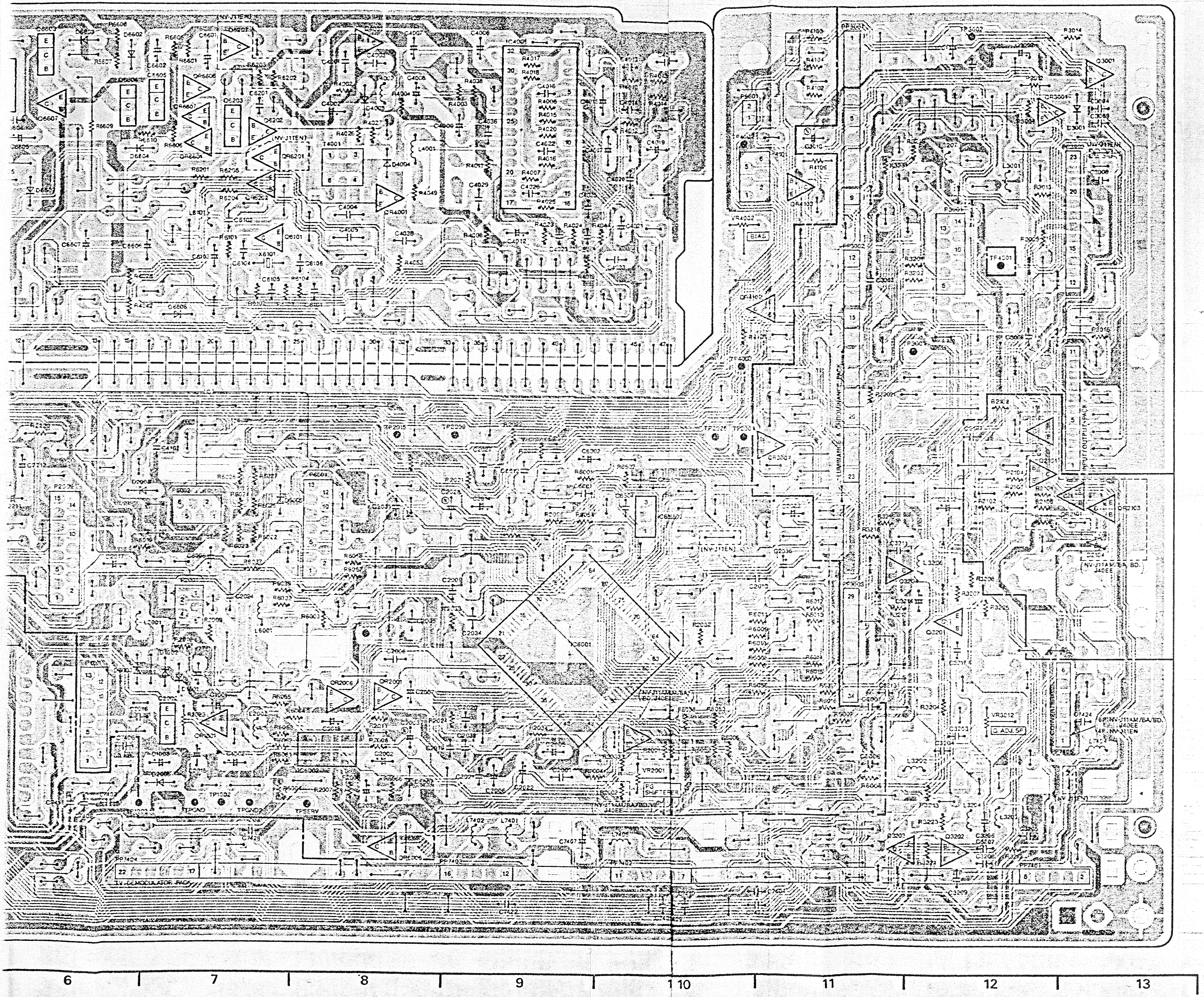
ASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
AL COLOUR SIGNAL.
ASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
AL COLOUR SIGNAL.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-8. MAIN C.B.A. (VEP03840U: NV-J11AM/BD) (VEP03840AG: NV-J11EN) (VEP03840X: NV-J11BA, J40EE)


MAIN C.B.A. (VEP03840U: NV-J11AM/BD) (VEP03840AG: NV-J11EN) (VEP03840X: NV-J11BA, J40EE)
CYLINDER DRIVE C.B.A. (VEP02375A)
IC201
MECHANISM CONNECTION C.B.A. (VXA4463)
P1504
TO MODE SELECT SW
(A)
(B)
(C)
TO SENSOR LED
TO SOLENOID
TO SAFETY TAB SW
IC1502
IC1501
PHOTO TR. (S) C.B.A. (VEP00R11A)
P1507
PJ1502
Q1501
C1501
PHOTO TR. (T) C.B.A.
P1503
P1502
Q1502
C1502
TO CASSETTE SW
SUB-MAIN SECTION
IC6601
IC4001
[NV-J11EN]
SYSTEM CONTROL & SERVO SECTION
IC2201
IC6001
LUMINANCE & CHROMINANCE SECTION
TV DEMODULATOR PACK
FG SHIFTER
BIAS
[NV-J11BA, J40EE]
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

40AG: NV-J11EN) (VEP03840X: NV-J11BA, J40EE)



MAIN C.B.A. ADDRESS INFORMATION

SYSTEM CONTROL & SERVO Section	
Transistor	
Q1501	A-2
Q1502	A-3
Q2001	B-10
Q2002	B-7
Q2101	D-12
Transistor & Resistor	
QR1001	B-7
QR2001	B-8
QR2006	B-8
QR2101	D-13
QR2102	D-12
QR2103	D-13
QR4102	E-10
QR4103	F-11
QR6006	A-8
Integrated Circuit	
IC201	F-2
IC1501	C-2
IC1502	C-1
IC2201	D-5
IC6001	C-9
IC6002	B-8
IC6502	D-10
Test Point	
TP1002	B-7
TP1003	B-6
TP2001	D-10
TP2002	C-8
TP2009	D-9
TP2015	D-8
TP2026	D-10
TP4001	E-12
TP4002	F-10
TP4003	E-10
TPGND	B-7
TPGND2	B-7
TPSERV	B-8
Adjustment	
VR2001	B-10
VR4002	E-10
Connector	
P201	F-1
P202	F-1
P1001	B-6
P1503	B-3
P1504	F-3
P1507	B-2
P1508	B-3
P1512	B-1
P2001	C-7
P2002	D-6
P4101	F-11
P6001	D-8
P6002	D-7
P6601	F-10
PJ1502	A-1
PJ1502	B-1

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE Section	
Transistor	
Q3001	F-13
Q3201	C-12
Q3202	A-12
Q3203	A-11
Q3204	C-11
Transistor & Resistor	
QR3001	F-12
QR3007	D-11
QR7401	B-2
Test Point	
TP3001	E-12
TP3002	F-12
Adjustment	
VR3012	B-12
Connector	
P3001	E-12
P7401	B-5
P7402	C-5
PP3001	F-11
PP3002	D-11
PP3003	C-11
PP3901	E-13
PP3902	F-13
PP7401	A-12
PP7402	A-10
PP7403	A-9
PP7404	A-6
PP7405	B-13

ADDRESS INFORMATION

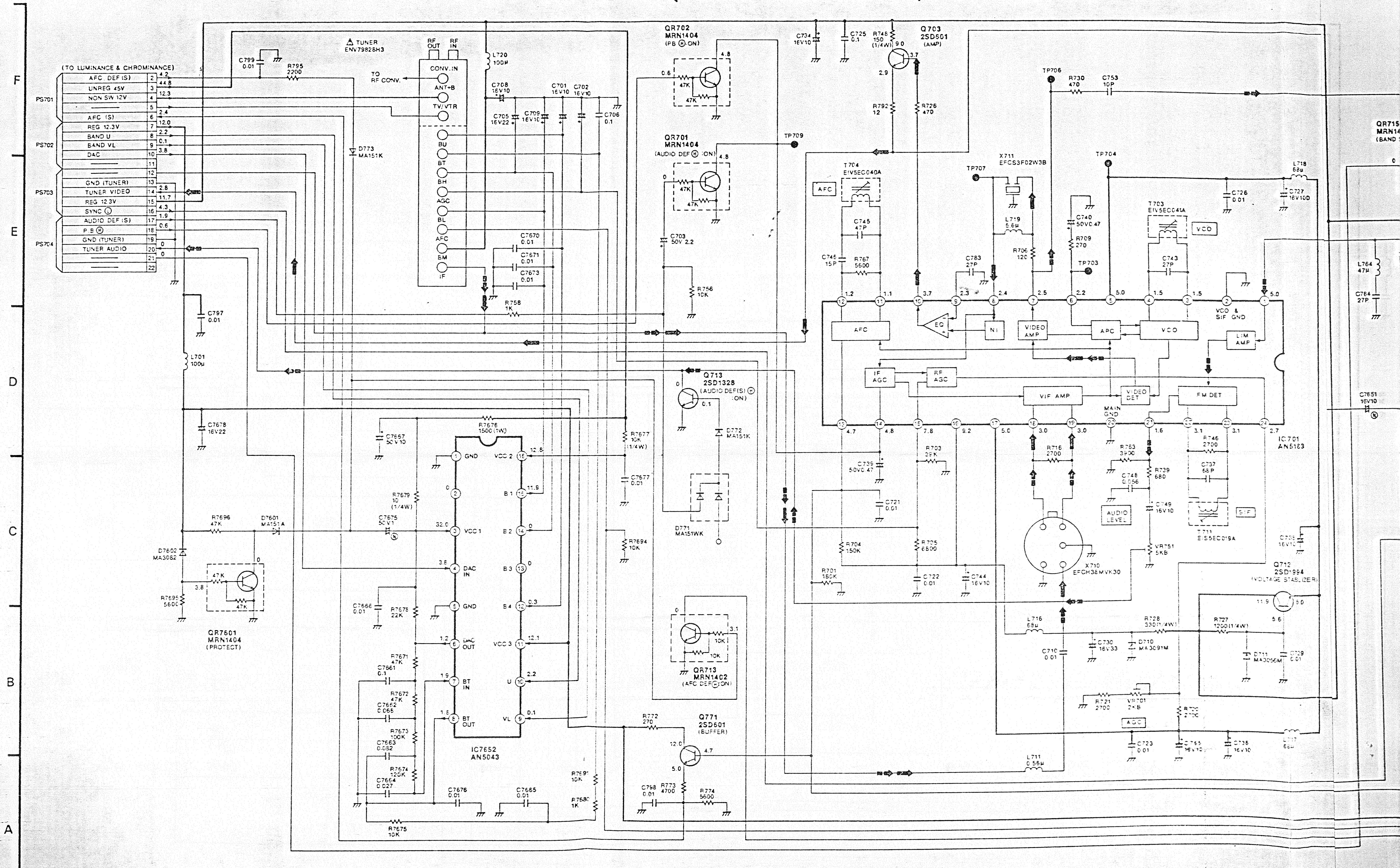
SUB MAIN Section	
Transistor	
Q4001	F-8
Q6101	E-7
Q6201	F-7
Q6202	F-7
Q6203	F-7
Q6601	F-5
Q6602	F-5
Q6603	F-6
Q6604	F-6
Q6605	F-7
Q6606	F-5
Q6607	F-6
Transistor & Resistor	
QR4001	F-8
QR6201	F-7
QR6202	F-7
QR6601	F-7
QR6602	F-4
QR6603	F-5
QR6604	F-5
QR6605	F-5
QR6606	F-7
QR6607	F-7
Integrated Circuit	
IC2301	E-5
IC4001	F-9
IC6601	F-6

ADDRESS INFORMATION

Next Page:
LUMI. & CHRO. PACK Section

3-17. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-J40EE)

VIDEO SIGNAL PATH AUDIO SIGNAL PATH

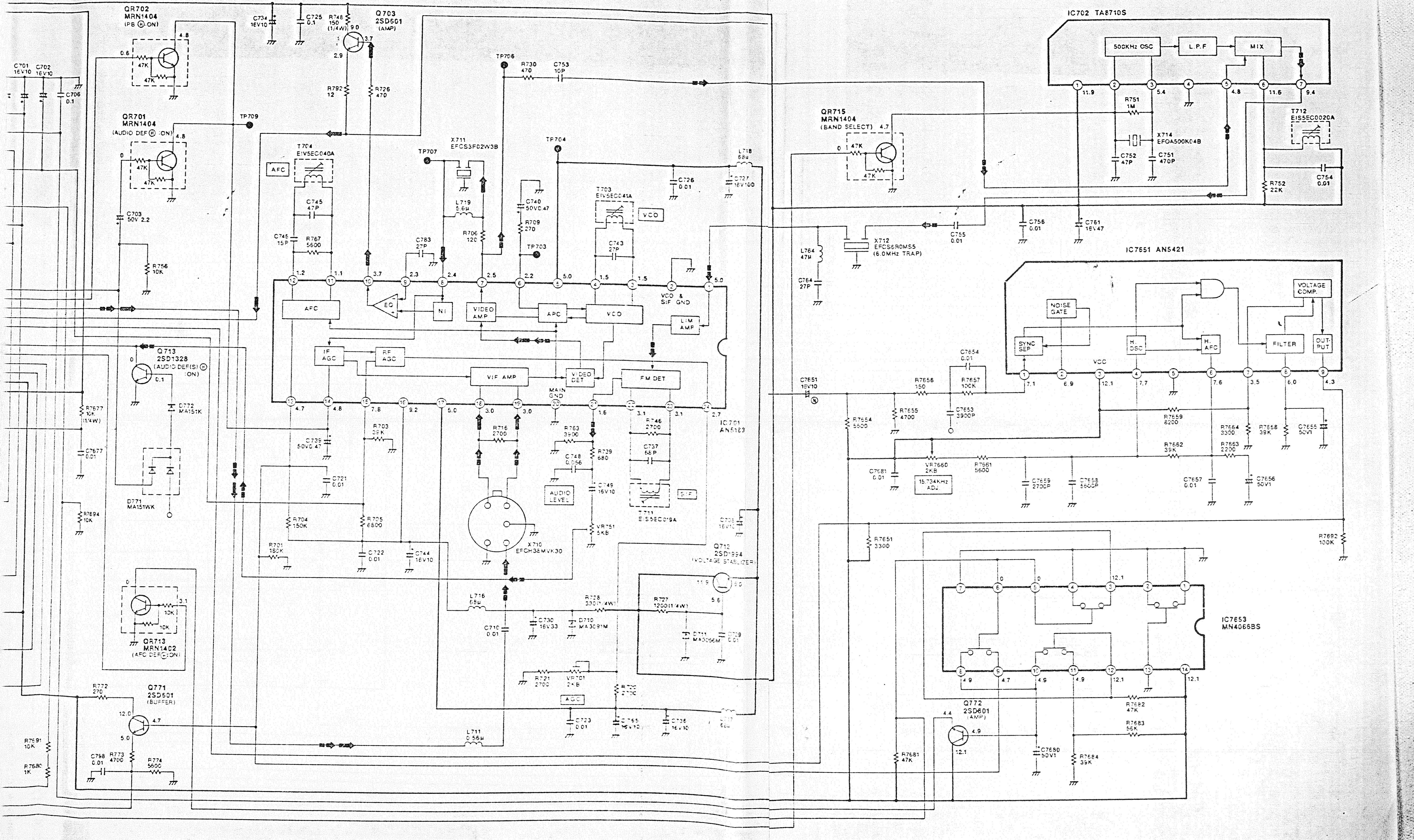

(TO LUMINANCE & CHROMINANCE)
PS701
PS702
PS703
PS704
AFC DEF (S)
UNREG 45V
NON SW 12V
AFC (S)
REG 12.3V
BAND U
BAND VL
DAC
GND (TUNER)
TUNER VIDEO
REG 12.3V
SYNC
AUDIO DEF (S)
P.B
GND (TUNER)
TUNER AUDIO
TUNER
ENV79828H3
RF OUT
RF IN
TO RF CONV.
CONV.IN
ANT+B
TV/VTR
BU
BT
BH
AGC
BL
AFC
BM
IF
L720 100μ
D773 MA151K
C797 0.01
L701 100μ
C7678 16V22
QR7601
MRN1404
(PROTECT)
D7602 MA3082
D7601 MA151A
IC7652
AN5043
GND
VCC 2
B 1
VCC 1
E 2
DAC IN
B 3
GND
E 4
DAC OUT
VCC 3
BT IN
U
BT OUT
VL
R7676 1500 (1W)
QR702
MRN1404
(PB ON)
QR701
MRN1404
(AUDIO DEF ON)
Q713
2SD1328
(AUDIO DEF(S) ON)
C772 MA151K
D771 MA151WK
QR713
MRN1402
(AFC DEF ON)
Q771
2SD601
(BUFFER)
Q703
2SD601
(AMP)
TP709
TP706
TP707
TP704
TP703
T704
EIV5EC040A
X711
EFCS3F02W3B
T703
EIV5EC041A
AFC
VCO
EQ
NI
VIDEO AMP
APC
LIM AMP
IF AGC
RF AGC
VIF AMP
VIDEO DET
FM DET
MAIN GND
VCO & SIF GND
IC701
AN5183
X710
EFCH38MVK30
AUDIO LEVEL
SIF
T771
EI5EC019A
Q712
2SD1994
(VOLTAGE STABILIZER)
ADJ
L716 68μ
L711 0.56μ
QR715
MRN14
L764 47μ
C764 27P
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK △ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE

NOTE THE MEASUR

(NV-J40EE)

VIDEO SIGNAL PATH AUDIO SIGNAL PATH


QR702
MRN1404
(PB Ⓗ:ON)
QR701
MRN1404
(AUDIO DEF Ⓗ :ON)
Q703
2SD601
(AMP)
TP709
TP706
TP707
TP704
TP703
T704
EIV5EC040A
X711
EFCS3F02W3B
T703
EIV5EC041A
AFC
VCO
EQ
NI
VIDEO AMP
APC
LIM AMP
IF AGC
RF AGC
VIF AMP
VIDEO DET
FM DET
MAIN GND
VCO & SIF GND
AUDIO LEVEL
SIF
T701
EIS5EC019A
X710
EFCH38MVK30
IC701
AN5123
Q713
2SD1328
(AUDIO DEF(S) Ⓛ :ON)
D772
MA151K
D771
MA151WK
QR713
MRN1402
(AFC DEF Ⓛ :ON)
Q771
2SD601
(BUFFER)
Q712
2SD1994
(VOLTAGE STABILIZER)
D710
MA3091M
D711
MA3056M
AGC
IC702 TA8710S
500KHz OSC
L.P.F
MIX
QR715
MRN1404
(BAND SELECT)
X714
EFOA500K04B
T712
EIS5EC0020A
X712
EFCS6R0MS5
(6.0MHz TRAP)
IC7651 AN5421
NOISE GATE
SYNC SEP
H OSC
H AFC
FILTER
VOLTAGE COMP.
OUT PUT
VCC
15.734KHz ADJ
IC7653
MN4066BS
Q772
2SD601
(AMP)
5
6
7
8
9
10
11
12
13

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

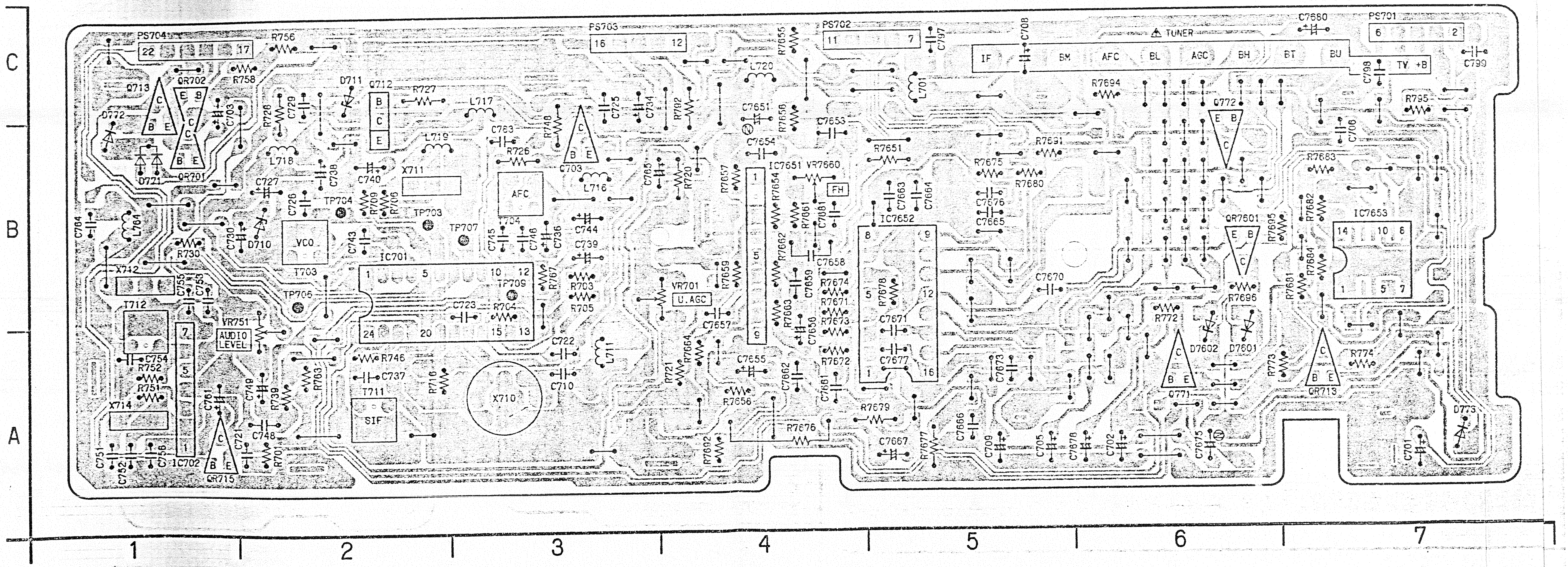
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-18. TV DEMODULATOR PACK C.B.A. (VEP07629G: NV-J40EE)

TV DEMODULATOR PACK C.B.A.	
Transistor	
Q703	B-3
Q712	C-2
Q713	C-1
Q771	A-6
Q772	C-6
Transistor & Resistor	
QR701	B-1
QR702	C-1
QR713	A-7
QR715	A-1
QR7601	B-6
Integrated Circuit	
IC701	B-2
IC702	A-1
IC7651	A-4
IC7652	B-5
IC7653	B-7
Test Point	
TP703	B-2
TP704	B-2
TP706	B-2
TP707	B-3
TP709	B-3
Adjustment	
T703	B-2
T704	B-3
T711	A-2
T712	B-1
VR701	B-4
VR751	B-2
VR7660	B-4
Connector	
PS701	C-7
PS702	C-4
PS703	C-3
PS704	C-1

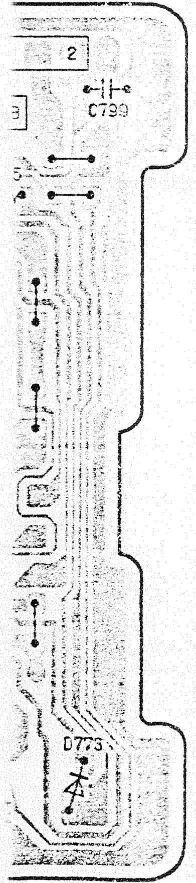
ADDRESS INFORMATION


C
B
A
1
2
3
4
5
6
7
PS704
22
17
R756
PS703
16
12
PS702
11
7
C797
C708
TUNER
C7680
PS701
6
2
IF
BM
AFC
BL
AGC
BH
BT
BU
TV +B
C798
C790
QR702
R758
Q713
D772
D711
Q712
R727
L717
R726
C729
C703
L720
C7651
C7653
C7654
R7694
Q772
R795
L701
C706
R7651
R7631
R7675
R7680
R7683
L718
D721
QR701
C727
C738
C740
X711
C783
R726
Q703
L716
L719
C726
TP704
R709
R706
TP703
AFC
T704
TP707
C744
C739
C745
C746
C736
IC7651
VR7660
FH
IC7652
C7663
C7664
C7676
C7665
QR7601
IC7653
14
10
8
C784
L764
R730
D710
VCO
IC701
C743
X742
T703
1
5
10
12
TP709
TP706
C723
R704
24
20
15
13
R767
R703
R705
VR701
U.AGC
R7659
C7658
R7674
R7671
R7673
R7672
C7670
R7696
R772
D7602
D7601
R7601
R7684
R7682
R7695
T712
C755
C753
VR751
AUDIO LEVEL
C754
R752
R751
X714
C761
C749
R739
R763
R746
C737
T711
SIF
R716
X710
C722
C710
L711
R721
R7664
C7657
C7655
R7656
C7662
C7661
R7679
R7676
C7667
R7677
C7666
C7673
C709
C705
C7678
C702
C7675
Q771
R773
R774
QR713
D773
C701
C751
C752
C756
IC702
QR715
C721
C748
R701
R7692

B-2
B-3
B-3

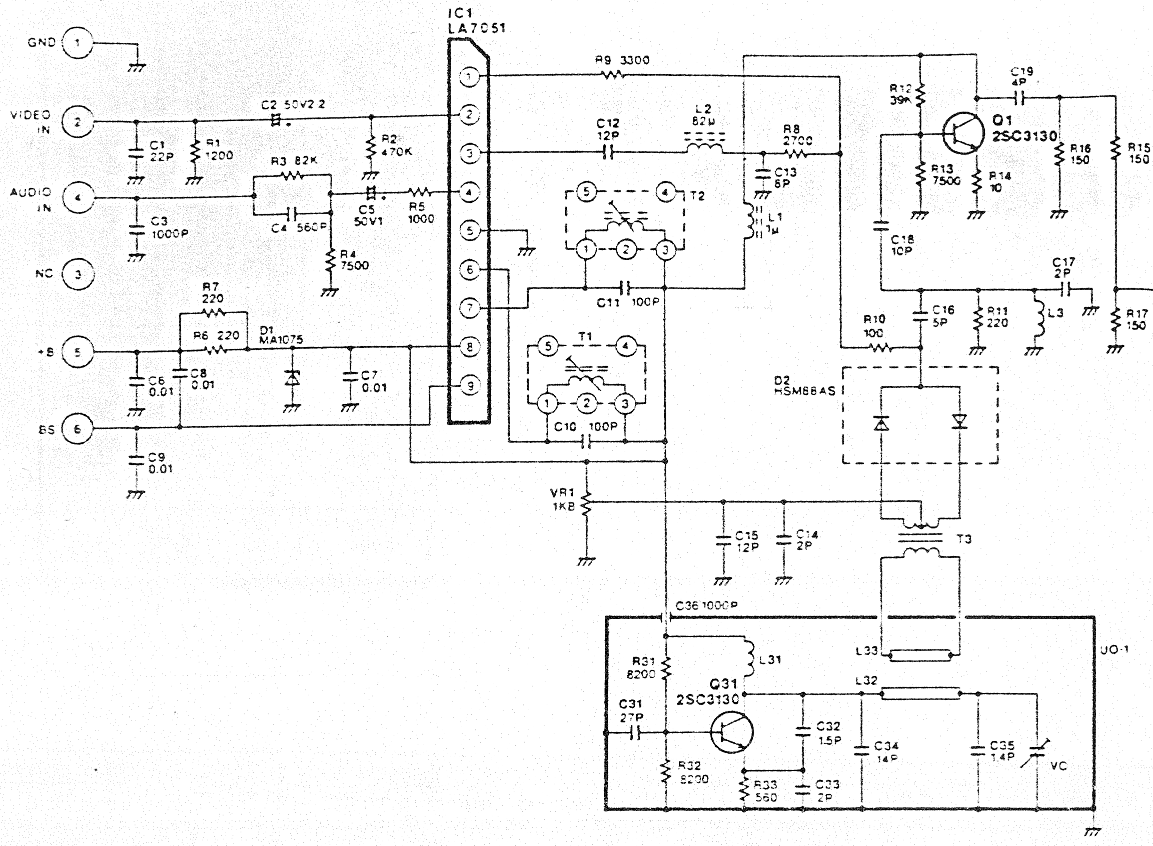
B-2
B-3
A-2
B-1
B-4
B-2
B-4

C-7
C-4
C-3
C-1



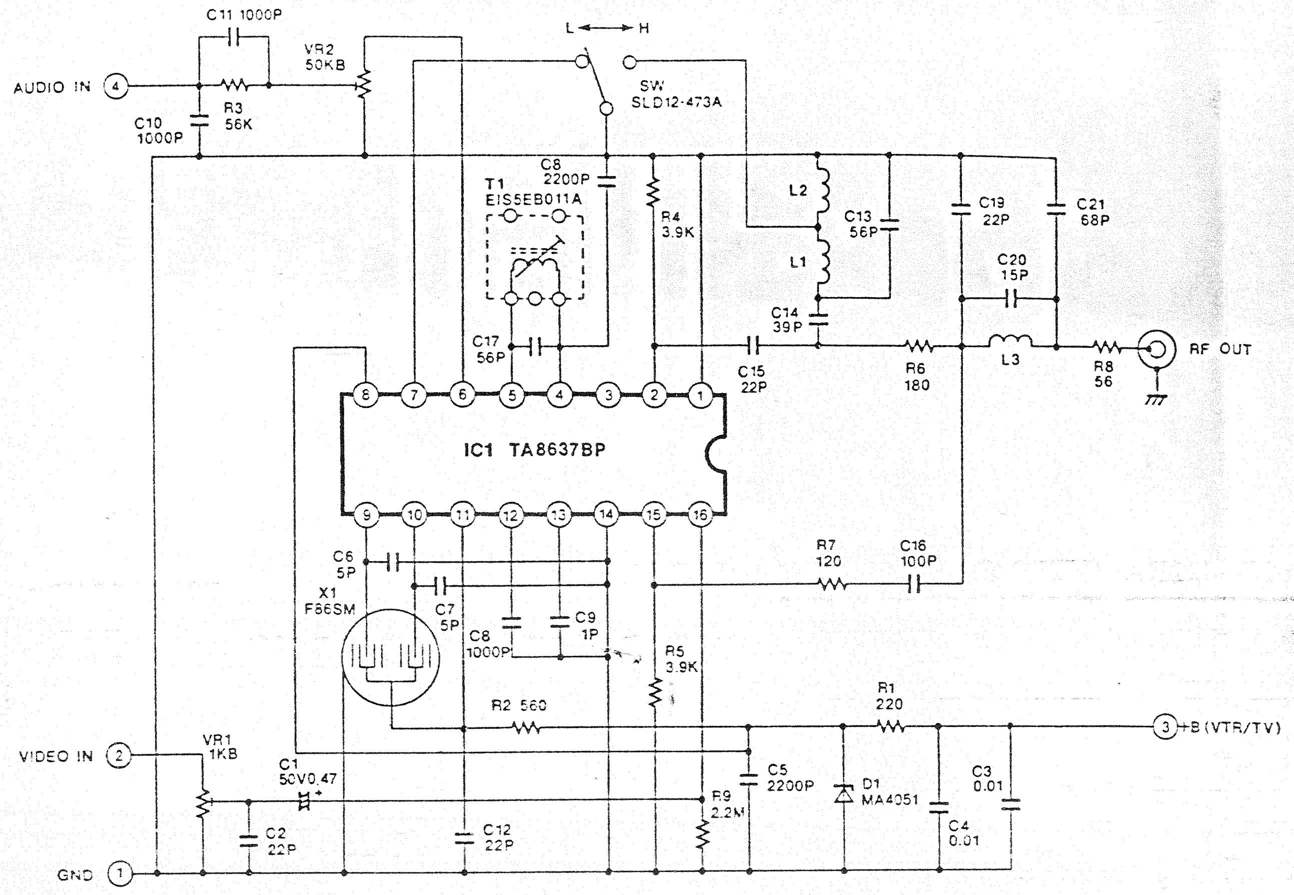
2
C799
3
5
D773

3-19. RF CONVERTER SCHEMATIC DIAGRAM (ENC17988: NV-J11AM, J40EE)



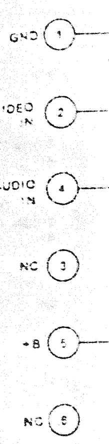
GND 1
VIDEO IN 2
AUDIO IN 4
NC 3
+B 5
BS 6
IC1 LA7051
C1 22P
R1 1200
C2 50V2.2
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R5 1000
R4 7500
R7 220
R6 220
D1 MA1075
C6 0.01
C8 0.01
C7 0.01
C9 0.01
R9 3300
C12 12P
L2 82μ
R8 2700
C13 8P
L1 1μ
T2
T1
C11 100P
C10 100P
VR1 1KB
C15 12P
C14 2P
T3
R12 39K
R13 7500
R14 10
Q1 2SC3130
C19 4P
R16 150
R15 150
C18 10P
C17 2P
C16 5P
R11 220
L3
R17 150
R10 100
D2 HSM88AS
RF OUT
C36 1000P
R31 8200
L31
Q31 2SC3130
C31 27P
R32 8200
R33 560
C32 1.5P
C33 2P
L33
L32
C34 14P
C35 1.4P
VC
UO-1

3-21. RF CONVERTER SCHEMATIC DIAGRAM (ENC17905: NV-J11EN)



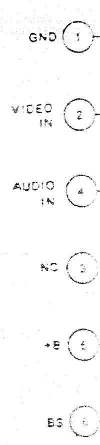
AUDIO IN 4
C11 1000P
VR2 50KB
R3 56K
C10 1000P
L ↔ H
SW SLD12-473A
C8 2200P
T1 EIS5EB011A
R4 3.9K
L2
L1
C13 56P
C19 22P
C21 68P
C20 15P
C14 39P
C17 56P
C15 22P
R6 180
L3
R8 56
RF OUT
IC1 TA8637BP
C6 5P
X1 F86SM
C7 5P
C8 1000P
C9 1P
R7 120
C16 100P
R5 3.9K
R2 560
R1 220
3 +B (VTR/TV)
VIDEO IN 2
VR1 1KB
C1 50V0.47
C2 22P
C12 22P
R9 2.2M
C5 2200P
D1 MA4051
C3 0.01
C4 0.01
GND 1

3-22. R
(E



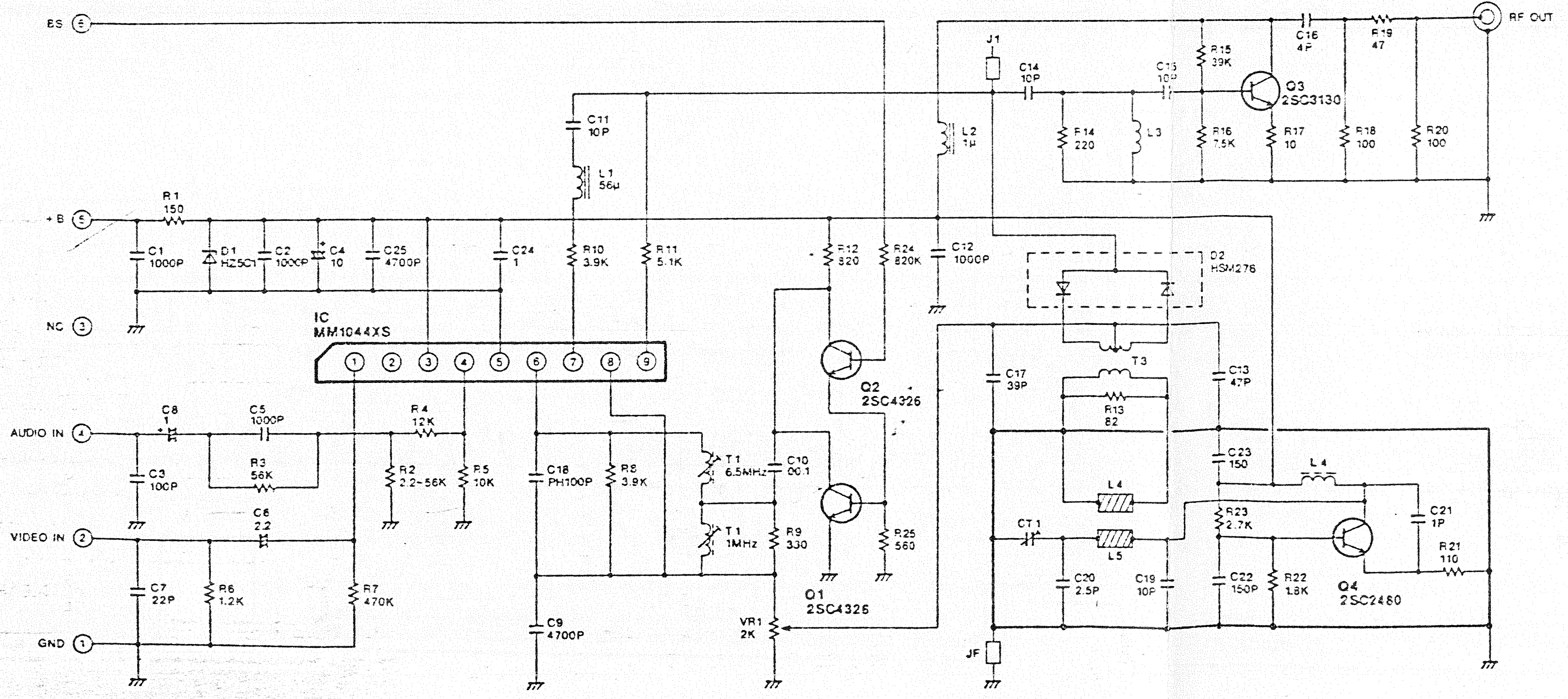
GND 1
VIDEO IN 2
AUDIO IN 4
NC 3
+B 5
NC 6

3-23. R
(E



GND 1
VIDEO IN 2
AUDIO IN 4
NC 3
+B 5
BS 6

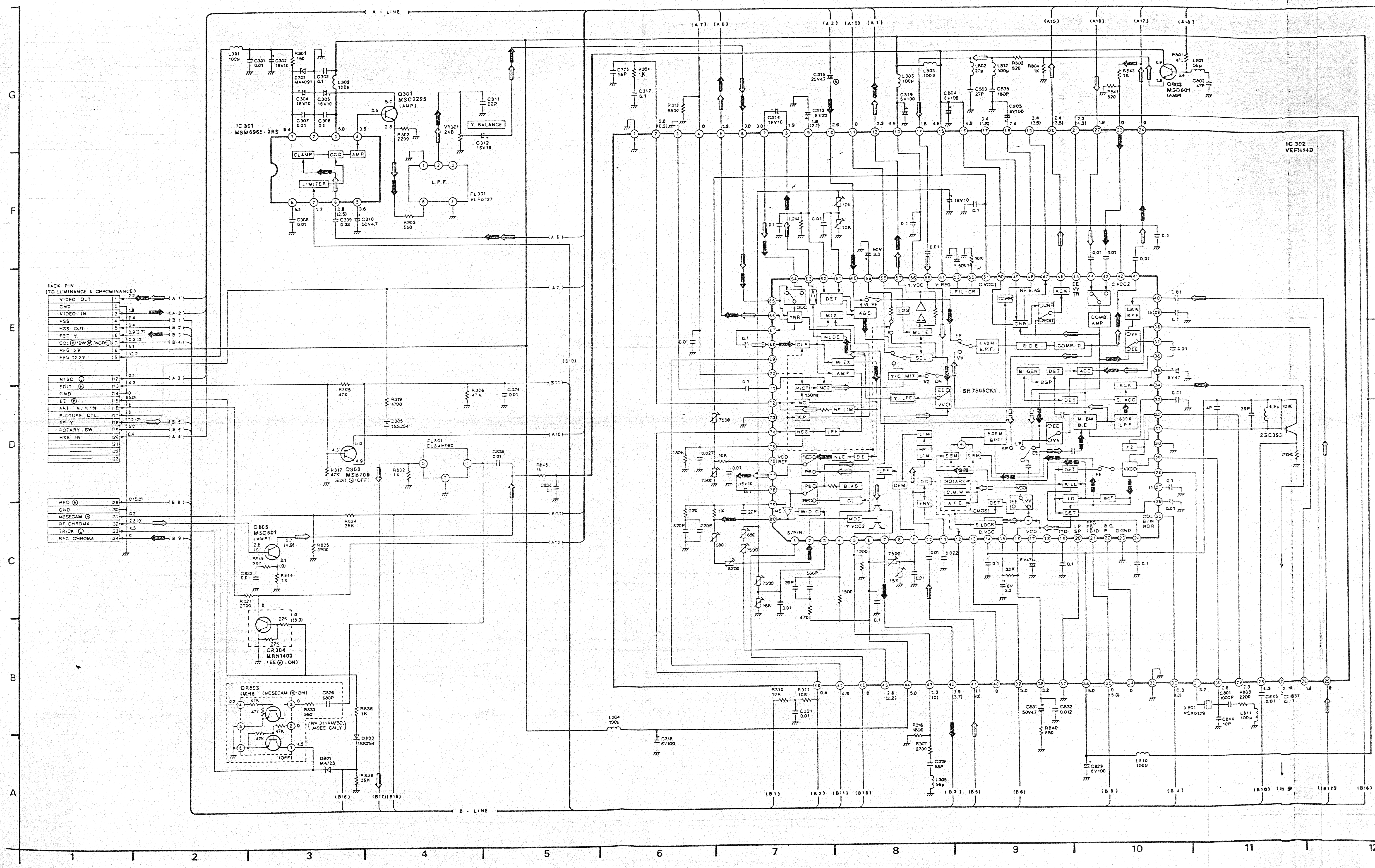
3-20. RF CONVERTER SCHEMATIC DIAGRAM (VEQ1339: NV-J11AM, J40EE)



BS 6
+B 5
NC 3
AUDIO IN 4
VIDEO IN 2
GND 1
R1 150
C1 1000P
D1 HZ5C1
C2 1000P
C4 10
C25 4700P
C24 1
C11 10P
L1 56μ
R10 3.9K
R11 5.1K
IC MM1044XS
C8 1
C5 1000P
R3 56K
C3 100P
C6 2.2
C7 22P
R6 1.2K
R7 470K
R4 12K
R2 2.2-56K
R5 10K
C18 PH100P
R8 3.9K
C9 4700P
T1 6.5MHz
T1 1MHz
C10 00.1
R9 330
VR1 2K
Q1 2SC4326
R12 820
R24 820K
Q2 2SC4326
R25 560
C12 1000P
L2 1μ
J1
C14 10P
R14 220
L3
C15 10P
R15 39K
R16 7.5K
Q3 2SC3130
R17 10
C16 4P
R19 47
R18 100
R20 100
RF OUT
D2 HSM276
T3
C17 39P
R13 82
C13 47P
C23 150
L4
L5
CT1
C20 2.5P
C19 10P
R23 2.7K
C22 150P
R22 1.8K
Q4 2SC2480
C21 1P
R21 110
JF

3-9. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN REC M
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYB

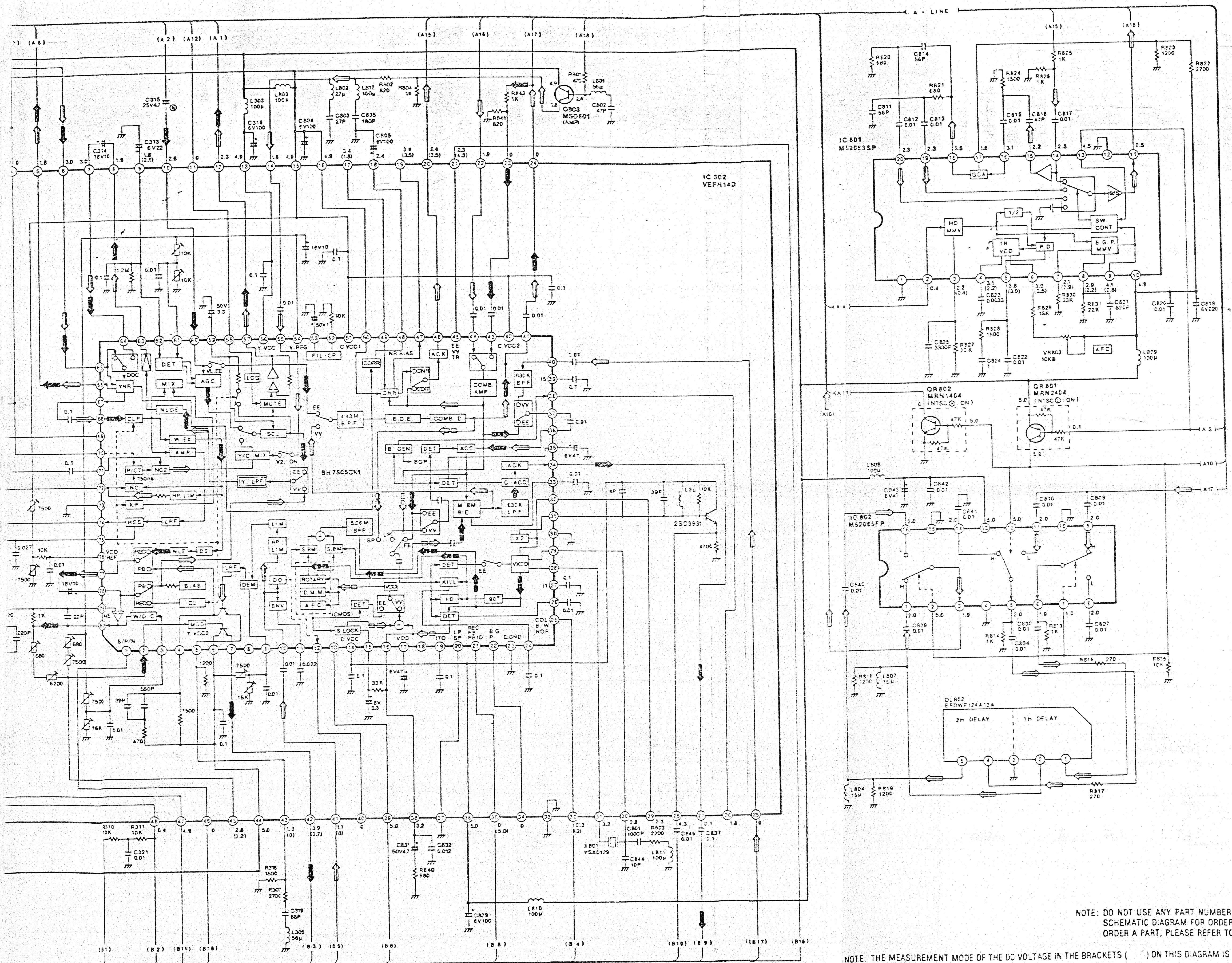

A - LINE
B - LINE
PACK PIN
(TO LUMINANCE & CHROMINANCE)
VIDEO OUT 1
GND 2
VIDEO IN 3
VSS 4
HSS OUT 5
REC Y 6
COL Ⓗ/BW Ⓜ/NOR Ⓛ 7
REG 5V 8
REG 12.3V 9
NTSC Ⓛ 12
EDIT Ⓗ 13
GND 14
EE Ⓗ 15
ART V/H/N 16
PICTURE CTL. 17
RF Y 18
ROTARY SW 19
HSS IN 20
21
22
23
REC Ⓗ 29
GND 30
MESECAM Ⓗ 31
RF CHROMA 32
TRICK Ⓛ 33
REC CHROMA 34
IC 301
MSM6965-3RS
CLAMP
CCD
AMP
LIMITER
Q301
MSC2295
(AMP)
VR301
2KB
Y BALANCE
L.P.F.
FL301
VLFC727
Q303
MSB709
(EDIT Ⓗ : OFF)
FL801
ELBAM060
Q805
MSD601
(AMP)
QR304
MRN1403
(EE Ⓗ : ON)
QR803
(MH6 (MESECAM Ⓗ : ON)
(MV J11AM(BD)
J40EE ONLY)
(OFF)
D801
MA723
D803
1SS254
IC 302
VEFH14D
BH7505CK1
Q803
MSD601
(AMP)
2SC353
X801
VSX0129
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11

SIGNAL PATH IN REC MODE

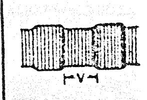
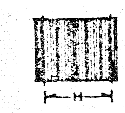
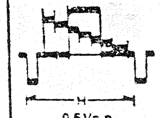
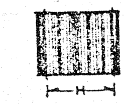
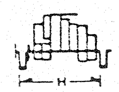
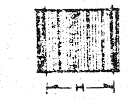
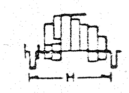
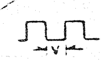
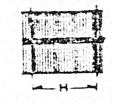
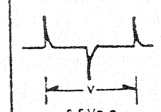
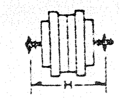
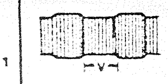
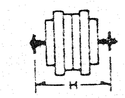
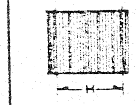
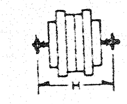
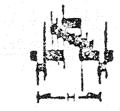
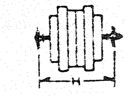
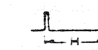
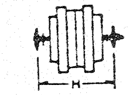
SIGNAL PATH IN PLAYBACK MODE

⬅ 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE

⇦ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE


A - LINE
IC 302
VEFH14D
BH7505CK1
Q803
MSD601
(AMP)
IC 801
M52063SP
IC 802
M52065FP
QR802
MRN1404
(NTSC ON)
QR801
MRN2404
(NTSC ON)
DL 802
EFDWF124A13A
2H DELAY
1H DELAY
X801
VSX0129
2SC3931
7
8
9
10
11
12
13
14
15

IC302 (VEFH14D)

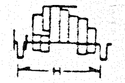
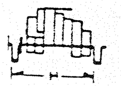
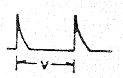
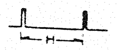
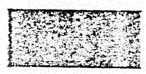
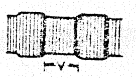
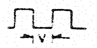
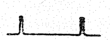
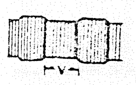
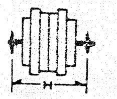
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	 0.3Vp-p (P.B)	28 29	 0.5Vp-p (REC/P.B)
5 6 7 8	 0.5Vp-p (REC/P.B)	30	 0.2Vp-p (REC/P.B)
10	 1.0Vp-p (REC/P.B)	31	 0.24Vp-p (REC/P.B)
12	 2.2Vp-p (REC/P.B)	39	 5.0Vp-p (REC/P.B)
17	 0.24Vp-p (REC)	40	 0.5Vp-p (REC/P.B)
22	 0.14Vp-p (REC/P.B)	41	 0.25Vp-p (P.B)
23	 0.4Vp-p (REC)	42	 0.8Vp-p (REC)
24	 0.9Vp-p (REC/P.B)	43	 0.36Vp-p (P.B)
26	 0.5Vp-p (REC/P.B)	48	 4.6Vp-p (REC/P.B)
27	 0.7Vp-p (REC)		

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

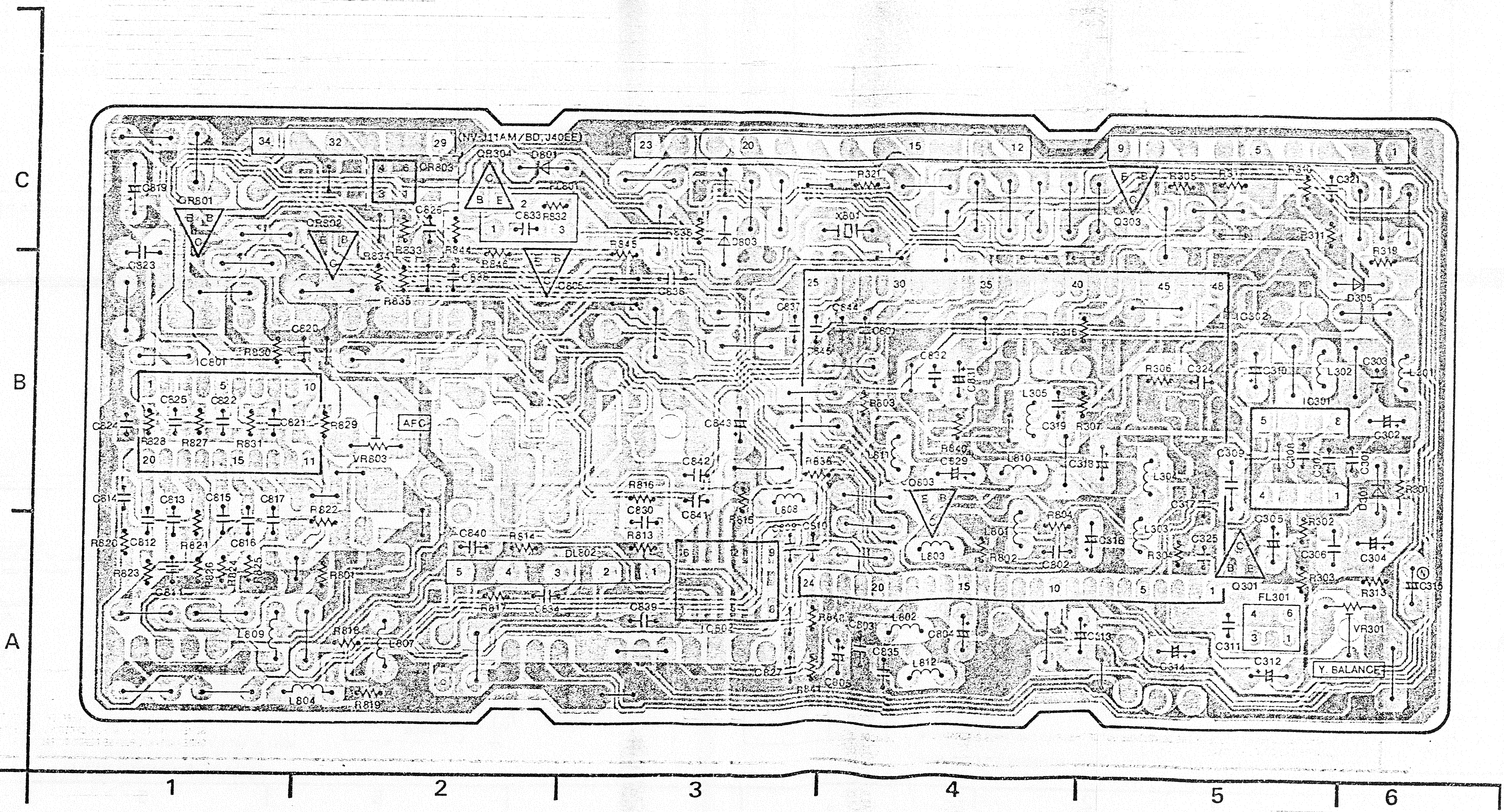
3-10. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03857D: NV-J11AM/BD, J40EE) (VEP03857K: NV-J11EN/BA)

LUMINANCE & CHROMINANCE PACK PIN

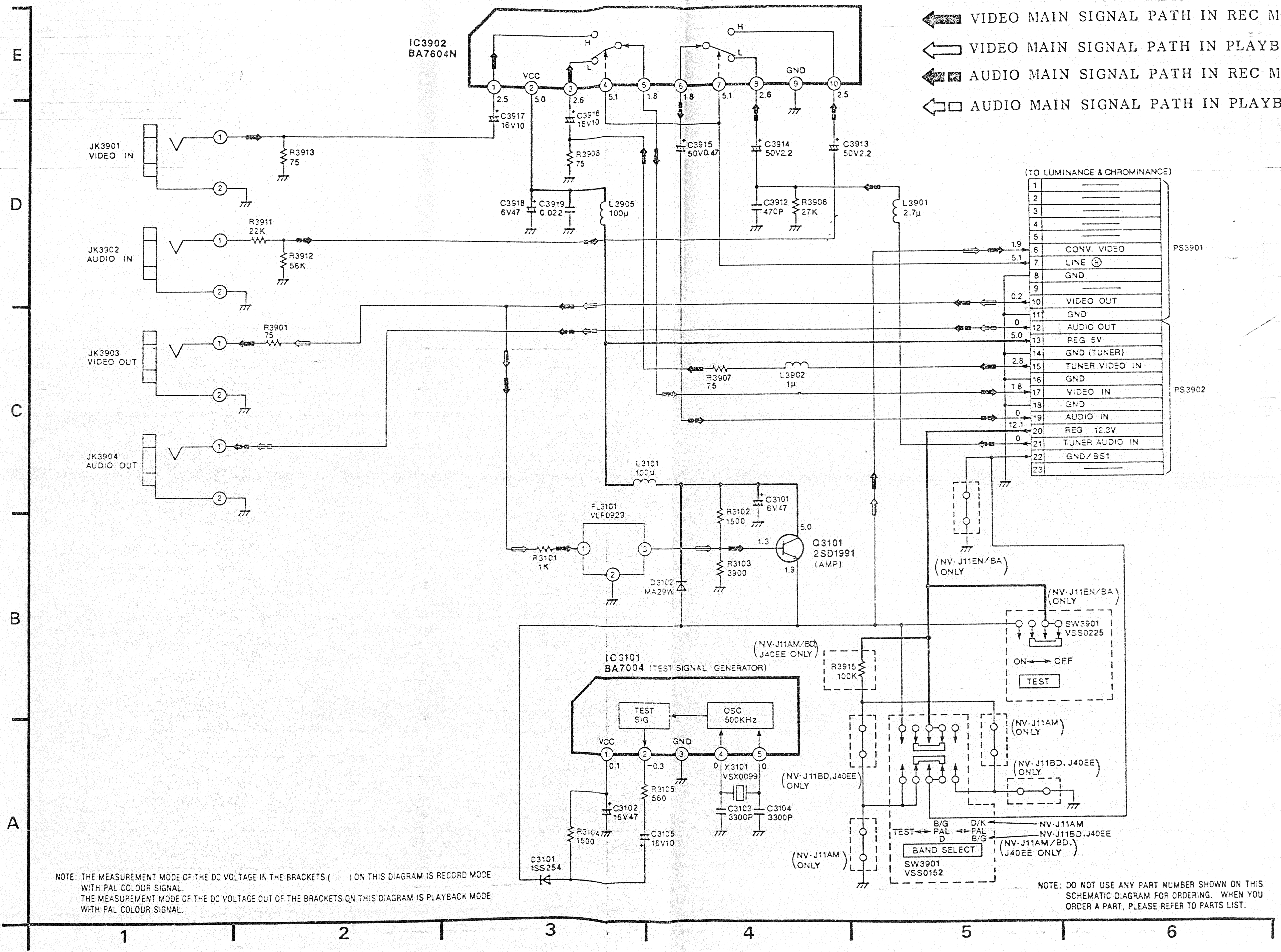
PIN NO.	WAVEFORM
1	 2.2Vp-p (REC/P.B)
3	 1.0Vp-p (REC/P.B)
4	 2.0Vp-p (REC/P.B)
5	 4.8Vp-p (REC/P.B)
6	 0.8Vp-p (REC)
18	 0.36Vp-p (F.B)
19	 5.2Vp-p (REC/P.B)
20	 4.5Vp-p (REC/P.B)
32	 0.3Vp-p (P.B)
34	 0.64Vp-p (REC)

LUMINANCE & CHROMINANCE PACK C.B.A			
Transistor		Integrated Circuit	
Q301 Q303 Q803 Q805	A-5 C-5 B-4 B-2	IC301 IC302 IC801 IC802	B-5 B-5 B-1 A-3
Transistor & Resistor		Adjustment	
QR304 QR801 QR802 QR803	C-2 C-1 C-2 C-2	VR301 VR803	A-6 B-2

ADDRESS INFORMATION


C
B
A
1
2
3
4
5
6
34
32
29
NV-J11AM/BD, J40EE
23
20
15
12
9
5
1
QR304
D801
QR803
QR801
QR802
C819
C323
C826
C833
R832
R833
R834
R835
R844
R845
R846
C836
Q805
C835
D803
X801
R321
R305
R311
R310
C321
Q303
R311
R319
D305
IC302
25
30
35
40
45
48
C837
C844
C807
R316
R845
C832
C811
R306
C324
C319
R307
L305
C310
L302
C303
L301
IC301
C302
C309
C308
C307
C301
D301
R301
C820
R830
IC801
C825
C822
C824
C821
R829
R828
R827
R831
AFC
VR803
C843
C842
R803
R840
C829
L811
L810
C318
L304
R836
Q803
C814
C813
C815
C817
R822
R816
C830
R813
C841
R815
L808
C810
L801
R804
C316
L303
C317
C325
C305
R302
C306
C304
R820
C812
R821
C816
C840
R814
DL802
R823
R826
R824
R825
R801
C811
R802
C802
R304
Q301
R303
R313
C315
R817
C834
C839
IC802
24
10
FL301
L809
R818
L807
R842
C803
L802
C804
C313
C311
C312
VR301
C835
L812
C827
R841
C805
C314
Y. BALANCE
L804
R819

3-11. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

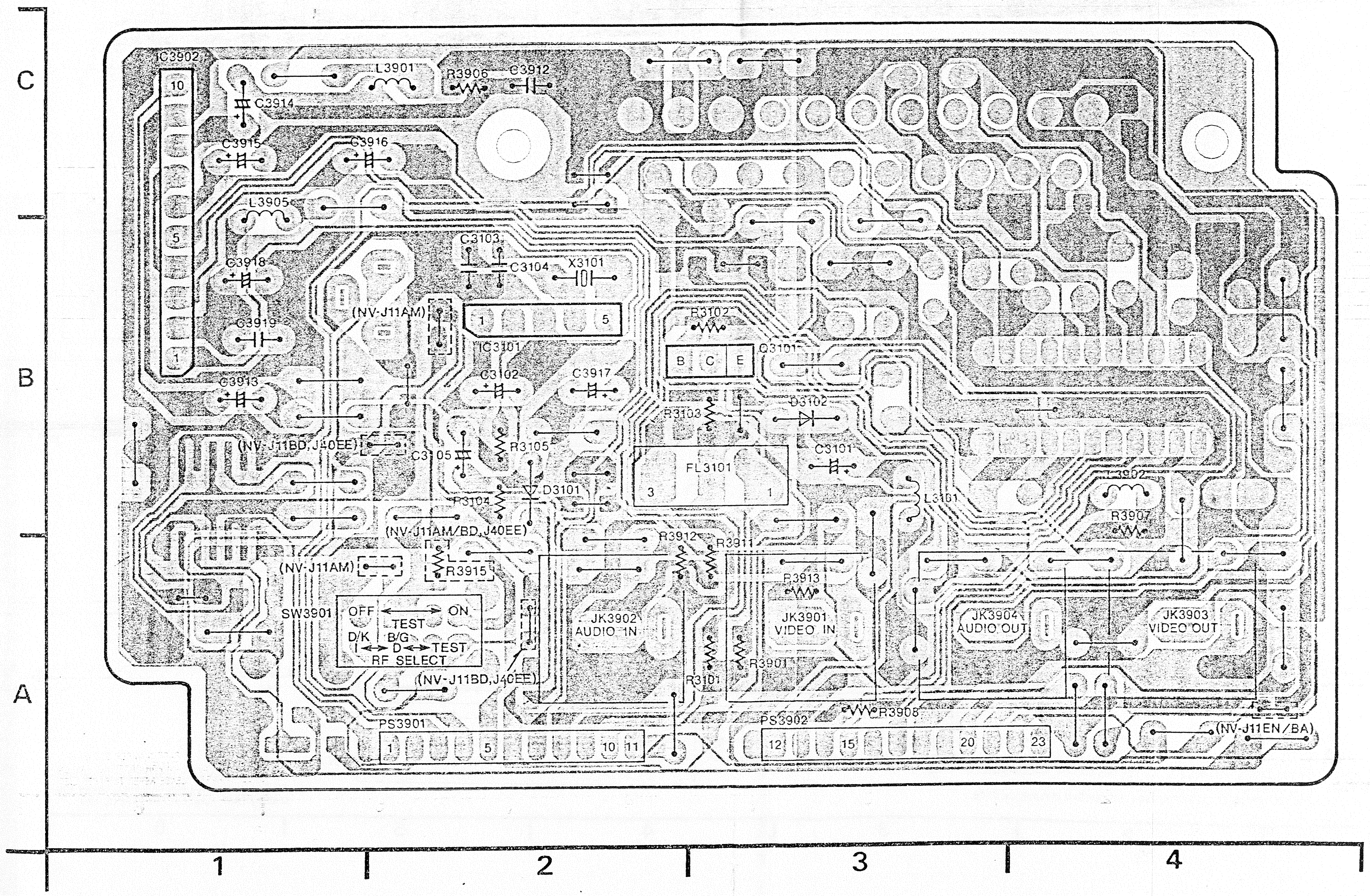

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
E
D
C
B
A
1
2
3
4
5
6
IC3902
BA7604N
VCC
GND
H
L
2.5
5.0
2.6
5.1
1.8
1.8
5.1
2.6
2.5
C3917
16V10
C3916
16V10
C3915
50V0.47
C3914
50V2.2
C3913
50V2.2
R3908
75
C3918
6V47
C3919
0.022
L3905
100μ
C3912
470P
R3906
27K
L3901
2.7μ
JK3901
VIDEO IN
R3913
75
JK3902
AUDIO IN
R3911
22K
R3912
56K
JK3903
VIDEO OUT
R3901
75
JK3904
AUDIO OUT
R3907
75
L3902
1μ
(TO LUMINANCE & CHROMINANCE)
1
2
3
4
5
6 CONV. VIDEO
7 LINE Ⓗ
8 GND
9
10 VIDEO OUT
11 GND
12 AUDIO OUT
13 REG 5V
14 GND (TUNER)
15 TUNER VIDEO IN
16 GND
17 VIDEO IN
18 GND
19 AUDIO IN
20 REG 12.3V
21 TUNER AUDIO IN
22 GND/BS1
23
PS3901
PS3902
1.9
5.1
0.2
0
5.0
2.8
1.8
0
12.1
0
L3101
100μ
C3101
6V47
R3102
1500
FL3101
VLF0929
R3101
1K
R3103
3900
D3102
MA29W
Q3101
2SD1991
(AMP)
5.0
1.3
1.9
(NV-J11EN/BA ONLY)
(NV-J11EN/BA ONLY)
SW3901
VSS0225
ON ←→ OFF
TEST
(NV-J11AM/BD, J40EE ONLY)
R3915
100K
IC3101
BA7004 (TEST SIGNAL GENERATOR)
TEST SIG.
OSC 500KHz
VCC
GND
0.1
-0.3
0
0
X3101
VSX0099
R3105
560
C3102
16V47
C3103
3300P
C3104
3300P
R3104
1500
C3105
16V10
D3101
1SS254
(NV-J11BD, J40EE ONLY)
(NV-J11AM ONLY)
(NV-J11BD, J40EE ONLY)
(NV-J11AM ONLY)
TEST ←→ B/G PAL D ←→ D/K PAL B/G
NV-J11AM
NV-J11BD, J40EE
(NV-J11AM/BD, J40EE ONLY)
BAND SELECT
SW3901
VSS0152

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
LUMI. & CHRO. PACK Section

3-12. INPUT/OUTPUT PACK C.B.A. (VEP03843J: NV-J11AM) (VEP03843D: NV-J11EN/BA) (VEP03843N: NV-J11BD) (VEP03843K: NV-J40EE)


C
B
A
1
2
3
4
IC3902
10
5
1
L3901
R3906
C3912
C3914
C3915
C3916
L3905
C3103
C3104
X3101
C3918
(NV-J11AM)
1
5
IC3101
C3919
R3102
Q3101
B
C
E
C3913
C3102
C3917
R3103
D3102
(NV-J11BD,J40EE)
C3105
R3105
FL3101
3
1
C3101
D3101
R3104
L3902
L3101
R3907
(NV-J11AM/BD,J40EE)
R3912
R3911
(NV-J11AM)
R3915
R3913
SW3901
OFF
TEST
ON
D/K
B/G
I
D
TEST
RF SELECT
JK3902
AUDIO IN
JK3901
VIDEO IN
JK3904
AUDIO OUT
JK3903
VIDEO OUT
R3901
R3101
(NV-J11BD,J40EE)
R3908
PS3901
1
5
10
11
PS3902
12
15
20
23
(NV-J11EN/BA)

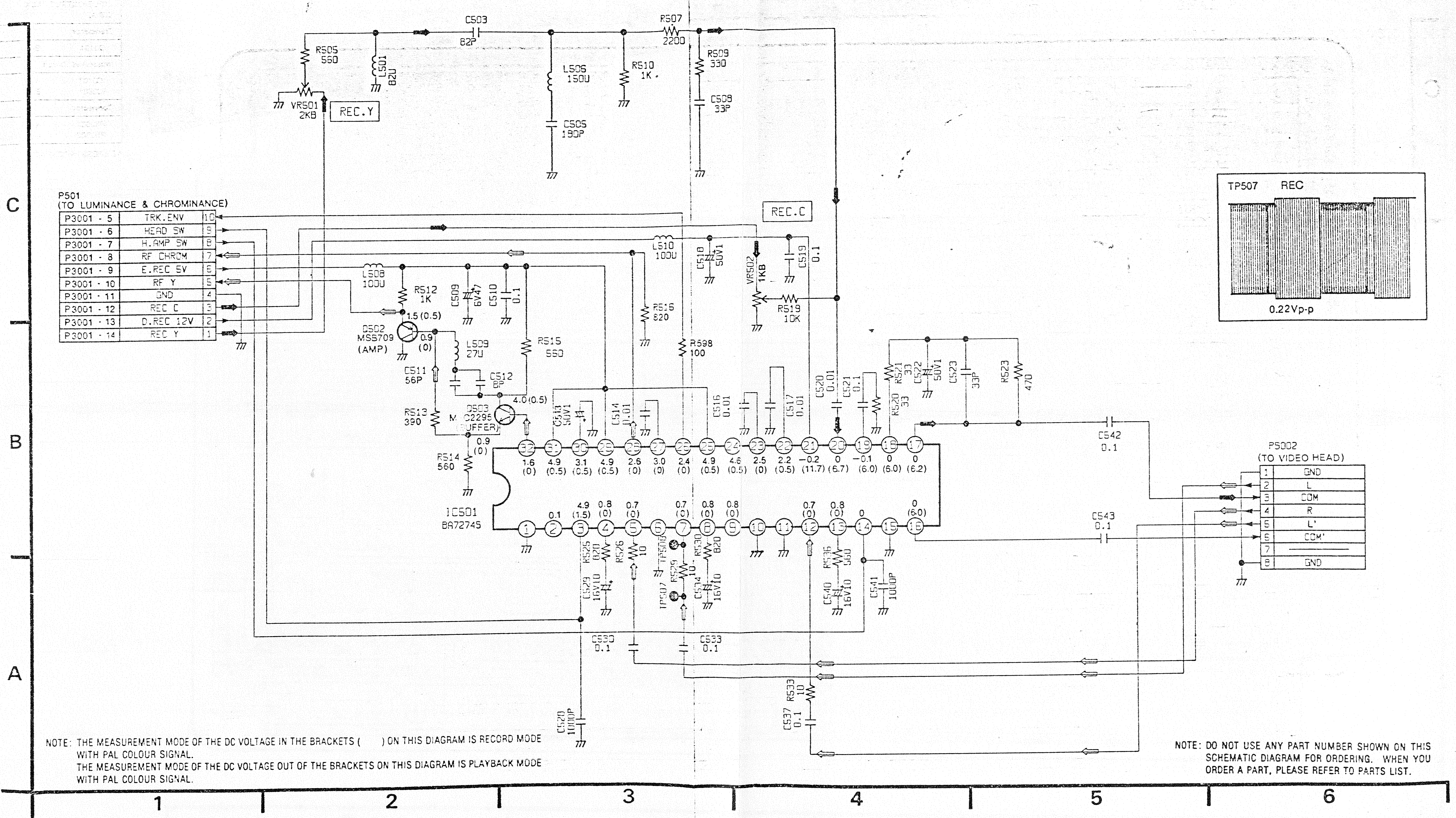
INPUT/OUTPUT PACK C.B.A.	
Transistor	
Q3101	B-2
Integrated Circuit	
IC3101 IC3901	A-2 B-4
Connector	
PS3901 PS3902	A-2 A-3

ADDRESS INFORMATION

3-13. HEAD AMP SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

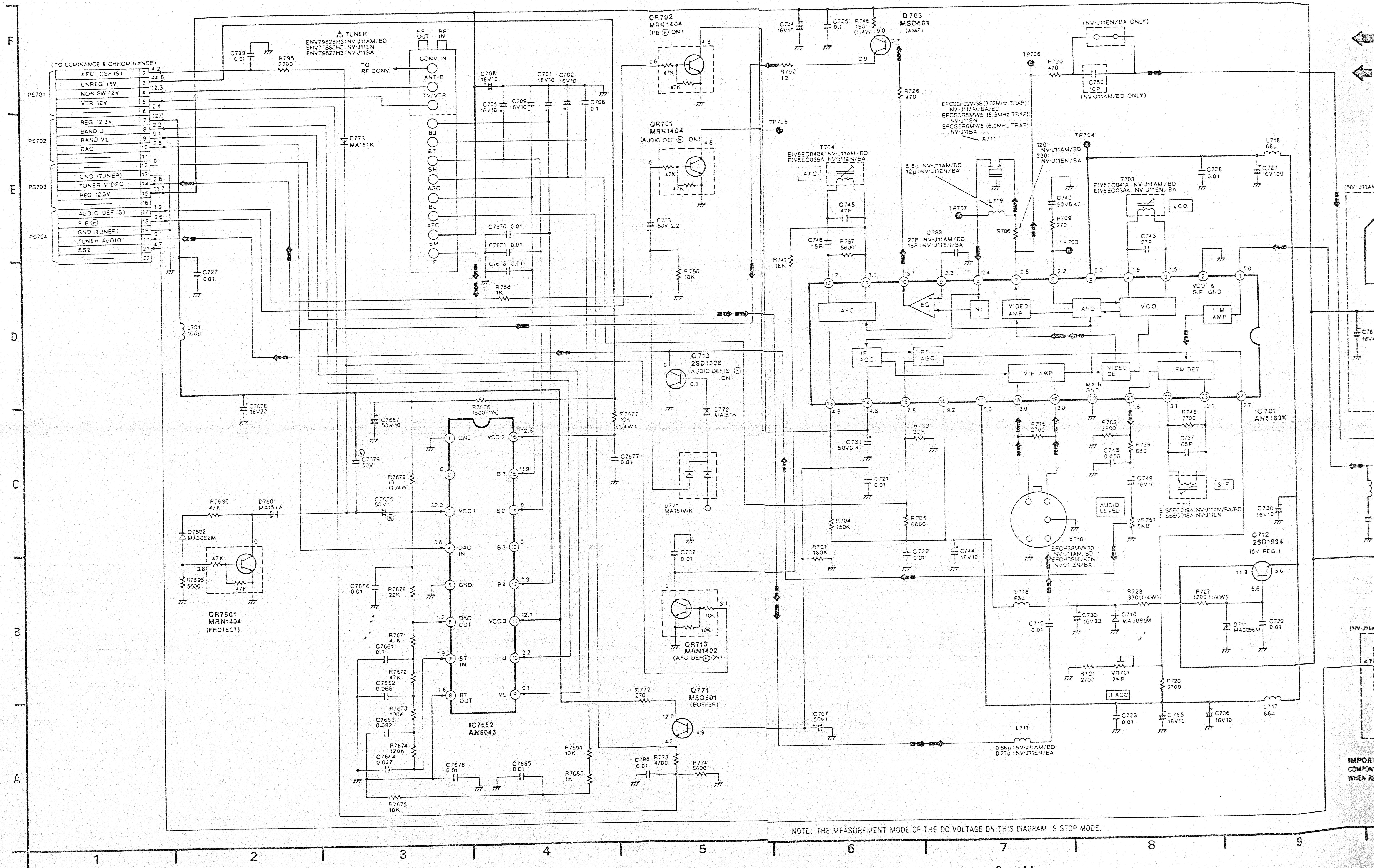

C503 82P
R507 2200
R505 560
L501 82U
VR501 2KB
REC.Y
L505 150U
C505 180P
R510 1K
R509 330
C508 33P
P501 (TO LUMINANCE & CHROMINANCE)
P3001 - 5 TRK.ENV 10
P3001 - 6 HEAD SW 9
P3001 - 7 H.AMP SW 8
P3001 - 8 RF CHROM 7
P3001 - 9 E.REC 5V 6
P3001 - 10 RF Y 5
P3001 - 11 GND 4
P3001 - 12 REC C 3
P3001 - 13 D.REC 12V 2
P3001 - 14 REC Y 1
REC.C
L510 100U
C518 50V1
VR502 1KB
C519 0.1
R519 10K
L508 100U
R512 1K
C509 6V47
C510 0.1
Q502 MS5709 (AMP)
L509 27U
R515 560
R516 820
R598 100
C511 56P
C512 8P
Q503 C2295 (BUFFER)
R513 390
R514 560
C513 50V1
C514 0.01
C516 0.01
C517 0.01
C520 0.01
C521 0.1
R520 33
R521 33
C522 50V1
C523 33P
R523 470
IC501 BA7274S
C542 0.1
C543 0.1
P5002 (TO VIDEO HEAD)
1 GND
2 L
3 COM
4 R
5 L'
6 COM'
7
8 GND
R525 820
R526 10
C529 16V10
TP506
TP507
R529 10
R530 820
C534 16V10
R536 560
C540 16V10
C541 1000P
C530 0.1
C533 0.1
R533 10
C537 0.1
C528 1000P
TP507 REC
0.22Vp-p
C
B
A
1
2
3
4
5
6

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
INPUT/OUTPUT Section

3-16. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-J11AM/EN/BA/BD)

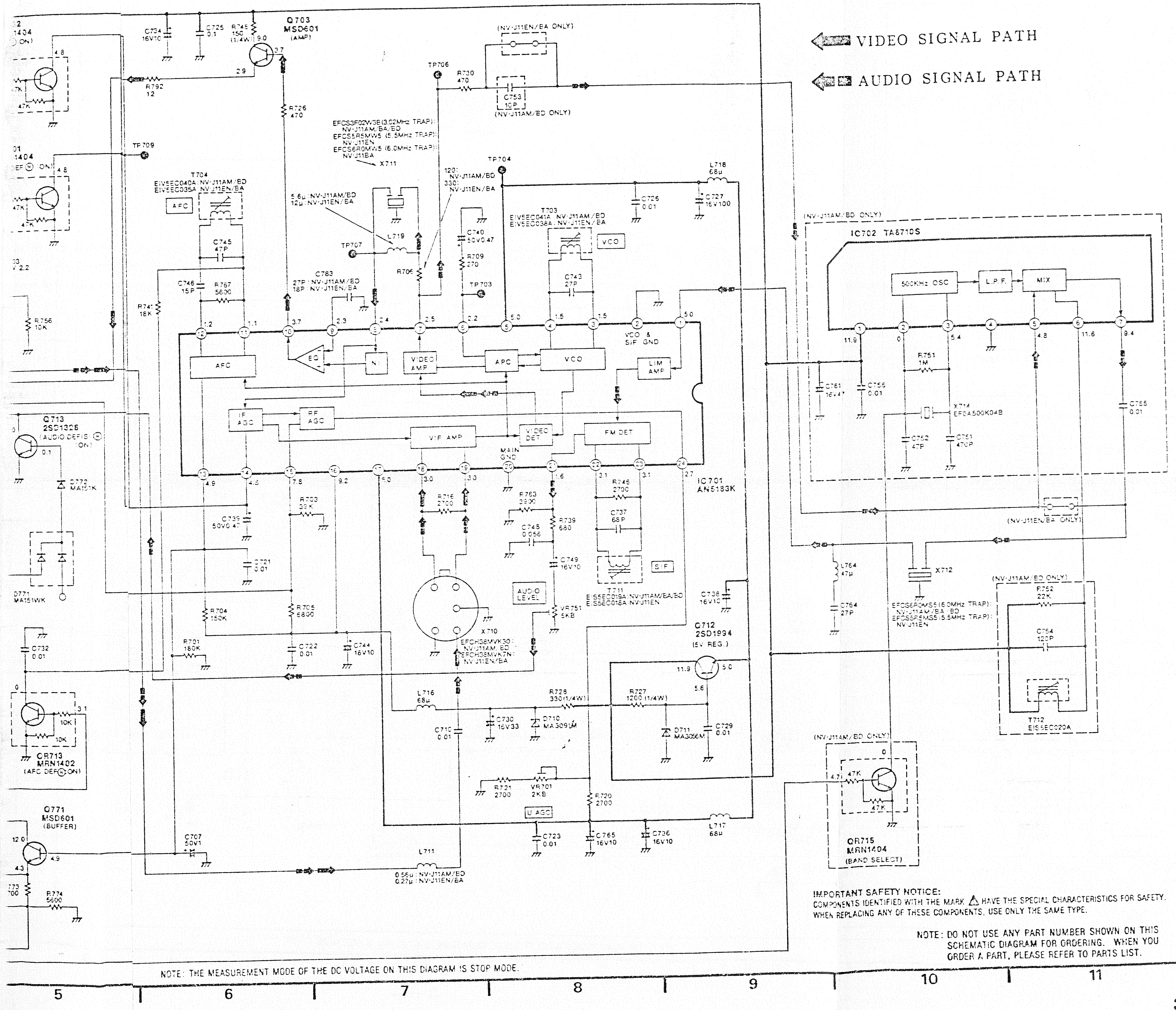

(TO LUMINANCE & CHROMINANCE)
PS701
PS702
PS703
PS704
AFC DEF (S)
UNREG 45V
NON SW 12V
VTR 12V
REG 12.3V
BAND U
BAND VL
DAC
GND (TUNER)
TUNER VIDEO
REG 12.3V
AUDIO DEF (S)
P.B Ⓗ
GND (TUNER)
TUNER AUDIO
ES2
TUNER
ENV79828H3 : NV-J11AM/BD
ENV77880H3 : NV-J11EN
ENV79827H3 : NV-J11BA
RF OUT
RF IN
TO RF CONV.
CONV IN
ANT+B
TV/VTR
BU
BT
BH
AGC
BL
AFC
EM
IF
C799 0.01
R795 2200
D773 MA151K
C797 0.01
L701 100μ
C7678 16V22
C708 16V10
C701 16V10
C702 16V10
C705 16V10
C709 16V10
C706 0.1
C7670 0.01
C7671 0.01
C7673 0.01
R758 1K
QR702 MRN1404 (PB Ⓗ ON)
QR701 MRN1404 (AUDIO DEF Ⓢ ON)
C703 50V 2.2
R756 10K
Q713 2SD1328 (AUDIO DEF(S) Ⓒ ON)
D773 MA151K
D771 MA151WK
C732 0.01
QR713 MRN1402 (AFC DEF Ⓢ ON)
Q771 MSD601 (BUFFER)
R772 270
C798 0.01
R773 4700
R774 5600
C707 50V1
R7677 10K (1/4W)
C7677 0.01
R7676 150(1W)
C7667 50V10
C7679 50V1
R7679 10 (1/4W)
C7675 50V1
R7696 47K
D7601 MA151A
D7602 MA3082M
R7695 5600
QR7601 MRN1404 (PROTECT)
C7666 0.01
R7678 22K
R7671 47K
C7661 0.1
R7672 47K
C7662 0.068
R7673 100K
C7663 0.062
R7674 120K
C7664 0.027
C7676 0.01
C7665 0.01
R7691 10K
R7680 1K
R7675 10K
GND
DAC IN
DAC OUT
ET IN
ET OUT
VCC 1
VCC 2
VCC 3
B1
B2
B3
B4
U
VL
IC7652 AN5043
Q703 MSD601 (AMP)
C734 16V10
C725 0.1
R746 150 (1/4W)
R792 12
R726 470
TP709
TP706
R730 470
(NV-J11EN/BA ONLY)
C753 10P
(NV-J11AM/BD ONLY)
EFCS3F02W3B (3.02MHz TRAP): NV-J11AM/BA/BD
EFCS5R5MW5 (5.5MHz TRAP): NV-J11EN
EFCS6R0MW5 (6.0MHz TRAP): NV-J11BA
X711
T704
EIV5EC040A : NV-J11AM/BD
EIV5EC035A : NV-J11EN/BA
AFC
C745 47P
C746 15P
R767 5600
R741 18K
5.6μ : NV-J11AM/BD
12μ : NV-J11EN/BA
L719
TP707
C783
27P : NV-J11AM/BD
18P : NV-J11EN/BA
R706
120: NV-J11AM/BD
330: NV-J11EN/BA
C740 50V0.47
R709 270
TP703
TP704
T703
EIV5EC041A : NV-J11AM/BD
EIV5EC038A : NV-J11EN/BA
VCO
C743 27P
C726 0.01
C727 16V100
L718 68μ
EQ
NI
VIDEO AMP
APC
VCO
VCO & SIF GND
LIM AMP
IF AGC
RF AGC
VIF AMP
VIDEO DET
FM DET
MAIN GND
IC701 AN5183K
C739 50V0.47
C721 0.01
R704 150K
R701 180K
R703 33K
R705 5600
C722 0.01
C744 16V10
R716 2700
R763 3900
C748 0.056
R739 560
C749 16V10
R745 2700
C737 68P
SIF
T711
EISSEC019A : NV-J11AM/BA/BD
EISSEC018A : NV-J11EN
AUDIO LEVEL
VR751 5KB
X710
EFCH3SMVK30 : NV-J11AM/BD
EFCH3SMVK7N : NV-J11EN/BA
L716 68μ
C730 16V33
D710 MA3091M
C710 0.01
R728 330 (1/4W)
R727 1200 (1/4W)
D711 MA3056M
C729 0.01
Q712 2SD1994 (5V REG.)
C738 16V10
R721 2700
VR701 2KB
U AGC
R720 2700
C723 0.01
C765 16V10
C736 16V10
L717 68μ
L711
0.56μ : NV-J11AM/BD
0.27μ : NV-J11EN/BA
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3A/BD)

VIDEO SIGNAL PATH

AUDIO SIGNAL PATH


Q703
MSD601
(AMP)
C734 16V10
C725 0.1
R745 150 (1/4W)
R792 12
R726 470
TP706
R730 470
(NV-J11EN/BA ONLY)
C753 10P
(NV-J11AM/BD ONLY)
TP709
T704
EIVSEC040A: NV-J11AM/BD
EIVSEC035A: NV-J11EN/BA
AFC
C745 47P
C746 15P
R767 5600
R741 18K
R756 10K
EFCS3F02W3E(3.02MHz TRAP): NV-J11AM/BA/BD
EFCS5R5MW5 (5.5MHz TRAP): NV-J11EN
EFCS6R0MW5 (6.0MHz TRAP): NV-J11BA
X711
5.6μ: NV-J11AM/BD
12μ: NV-J11EN/BA
L719
TP707
C783
27P: NV-J11AM/BD
18P: NV-J11EN/BA
R706
TP704
120: NV-J11AM/BD
330: NV-J11EN/BA
C740 50V0.47
R709 270
TP703
T703
EIVSEC041A: NV-J11AM/BD
EIVSEC038A: NV-J11EN/BA
VCO
C743 27P
C726 0.01
L718 68μ
C727 16V100
VCO & SIF GND
AFC
EQ
NI
VIDEO AMP
APC
VCO
LIM AMP
IF AGC
RF AGC
VIF AMP
VIDEO DET
FM DET
MAIN GND
IC701
AN5183K
Q713
2SD1328
(AUDIO DEFIS ON)
C772 MA151K
D771 MA151WK
C739 50V0.47
R703 33K
C721 0.01
R716 2700
R763 3300
C748 0.056
R739 560
C749 16V10
R746 2700
C737 68P
T711
EIS5EC019A: NV-J11AM/BA/BD
EIS5EC018A: NV-J11EN
SIF
AUDIO LEVEL
VR751 5KB
C738 16V10
R704 150K
R705 6800
R701 180K
C722 0.01
C744 16V10
X710
EFCH38MVK30: NV-J11AM/BD
EFCH38MVA7N: NV-J11EN/BA
C732 0.01
QR713
MRN1402
(AFC DEF ON)
Q712
2SD1994
(5V REG.)
L716 68μ
R728 330(1/4W)
R727 1200 (1/4W)
C730 16V33
D710 MA3091M
C710 0.01
D711 MA3056M
C729 0.01
R731 2700
VR701 2KB
R720 2700
U AGC
C723 0.01
C765 16V10
C736 16V10
L717 68μ
Q771
MSD601
(BUFFER)
C707 50V1
L711
0.56μ: NV-J11AM/BD
0.27μ: NV-J11EN/BA
R774 5600
(NV-J11AM/BD ONLY)
IC702 TA8710S
500KHz OSC
L.P.F.
MIX
C761 16V47
C756 0.01
R751 1M
X714 EFOA500K04B
C752 47P
C751 470P
C755 0.01
(NV-J11EN/BA ONLY)
L764 47μ
C764 27P
X712
EFCS6R0MS5 (6.0MHz TRAP): NV-J11AM/BA/BD
EFCS5R5MS5 (5.5MHz TRAP): NV-J11EN
(NV-J11AM/BD ONLY)
R752 22K
C754 120P
T712
EIS5EC020A
(NV-J11AM/BD ONLY)
QR715
MRN1404
(BAND SELECT)
5
6
7
8
9
10
11

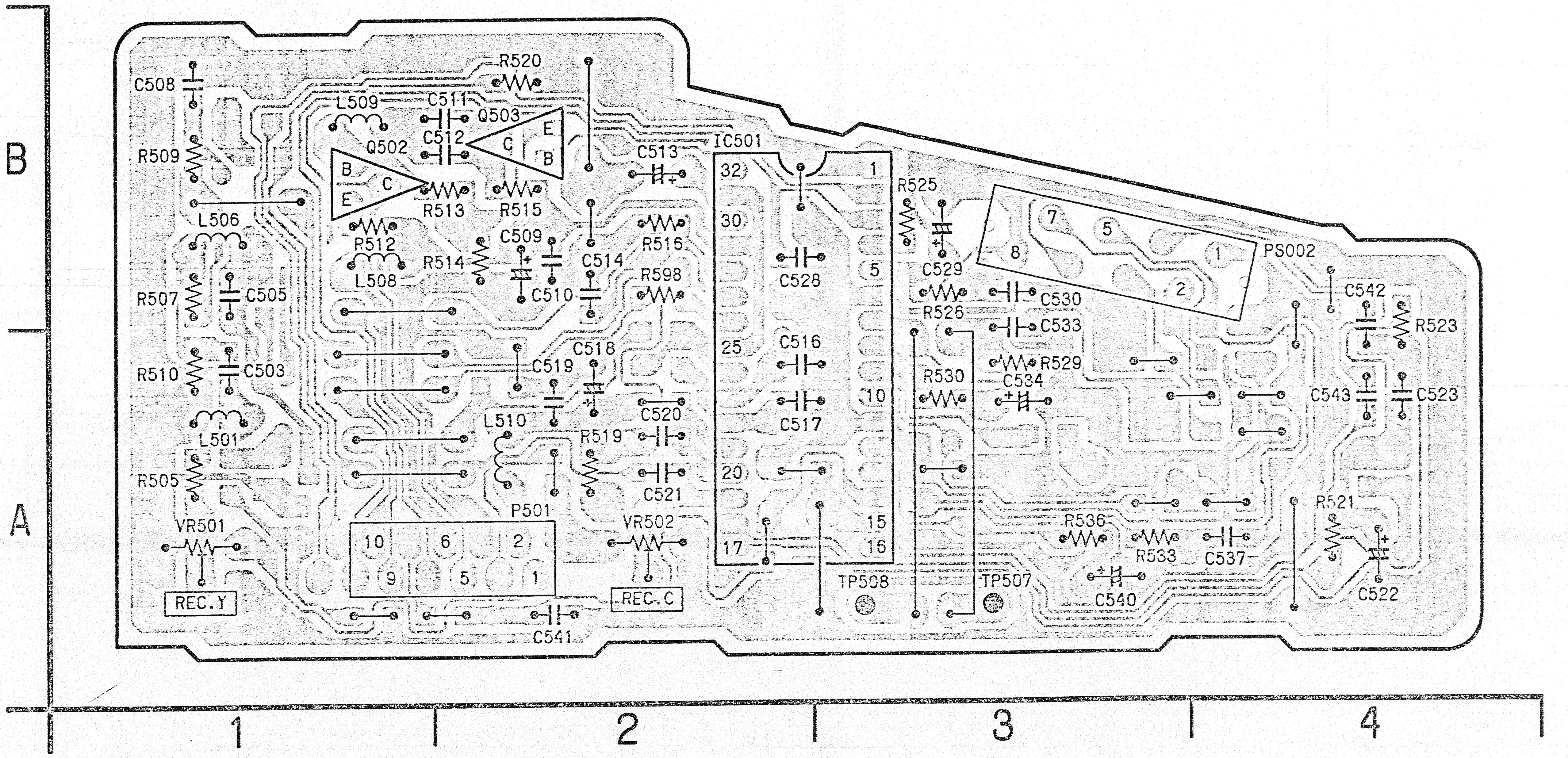
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
TV DEMODULATOR Section

3-14. HEAD AMP C.B.A. (VEP05167E)

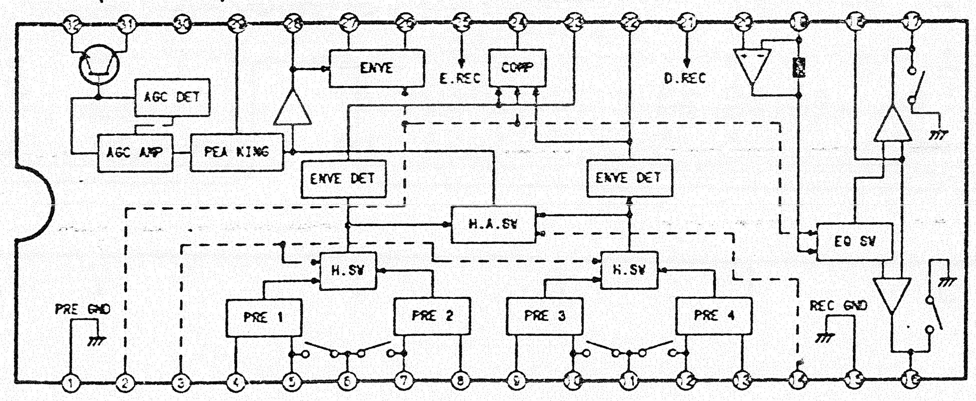

B
A
1
2
3
4
C508
R520
L509
C511
Q503
C512
Q502
E
C
B
C513
IC501
32
1
R509
R513
R515
R525
L506
C509
R516
30
R512
R514
C514
C528
5
C529
7
5
8
1
2
PS002
L508
C510
R598
R526
C530
C542
R507
C505
C533
R523
25
C516
R529
C518
R530
C534
R510
C503
C519
10
C543
C523
C520
L501
L510
C517
R519
20
R505
P501
R521
VR501
10
6
2
R536
VR502
15
R533
C537
17
16
9
5
1
REC.Y
REC.C
TP508
TP507
C540
C522
C541

HEAD AMP C.B.A.	
Transistor	
Q502	B-1
Q503	B-2
Integrated Circuit	
IC501	B-2
Test Point	
TP507	A-3
TP508	A-3
Adjustment	
VR501	A-1
VR502	A-2
Connector	
P501	A-2
PS002	B-4

ADDRESS INFORMATION

IC BLOCK

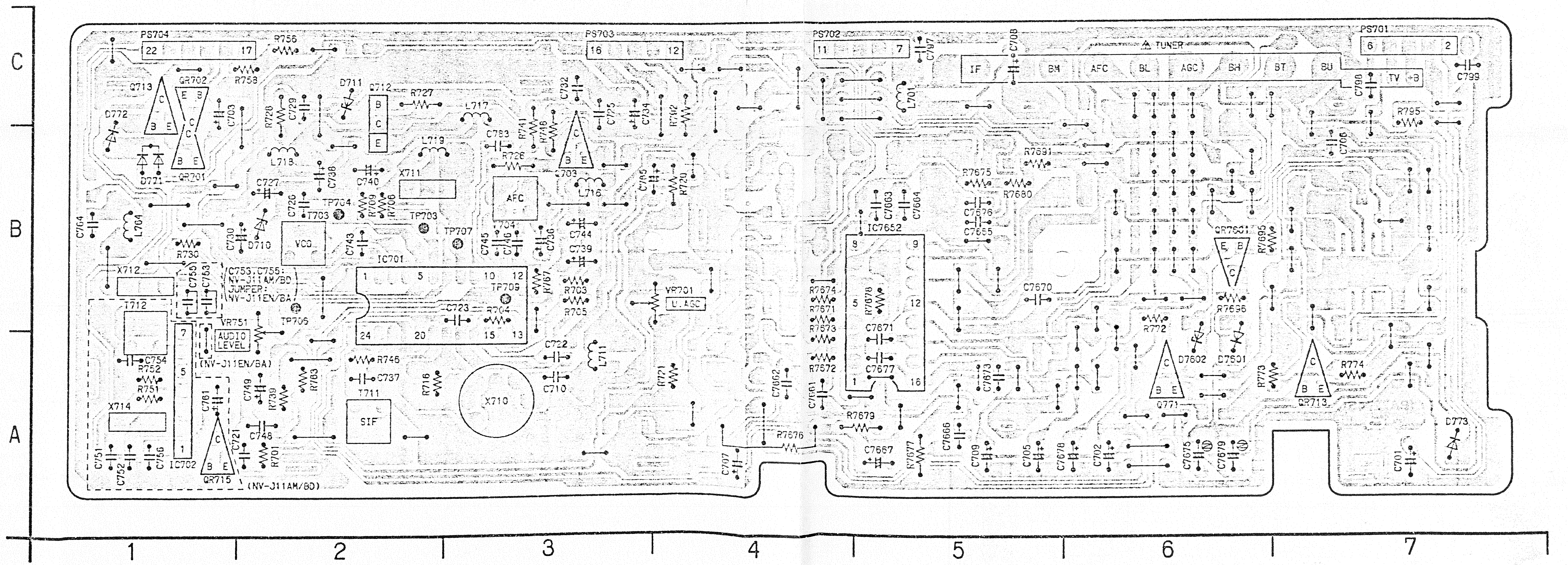
IC501 (BA7274S)


AGC DET
AGC AMP
PEA KING
ENVE
E.REC
COMP
D.REC
ENVE DET
ENVE DET
H.A.SW
EQ SW
H.SW
H.SW
PRE 1
PRE 2
PRE 3
PRE 4
PRE GND
REC GND

3-15. TV DEMODULATOR PACK C.B.A. (VEP07629D: NV-J11AM/BD) (VEP07629B: NV-J11EN) (VEP07629F: NV-J11BA)

TV DEMODULATOR PACK C.B.A.	
Transistor	
Q703	B-3
Q712	C-2
Q713	C-1
Q771	A-6
Transistor & Resistor	
QR701	B-1
QR702	C-1
QR713	A-7
QR715	A-1
QR7601	B-6
Integrated Circuit	
IC701	B-2
IC702	A-1
IC7652	B-5
Test Point	
TP703	B-2
TP704	B-2
TP706	B-2
TP707	B-3
TP709	B-3
Adjustment	
T703	B-2
T704	B-3
T711	A-2
VR701	B-4
VR751	B-2
Connector	
PS701	C-7
PS702	C-4
PS703	C-3
PS704	C-1

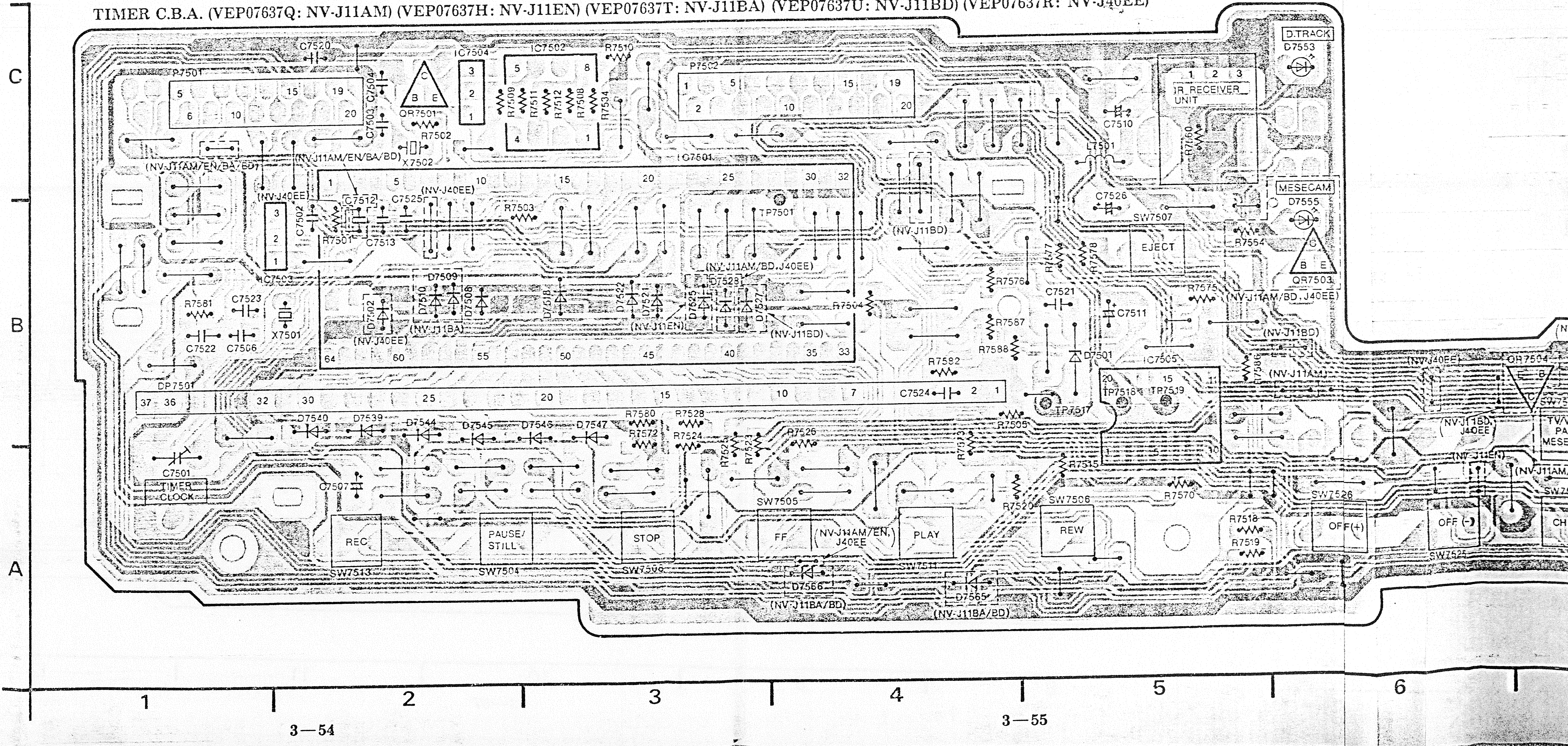
ADDRESS INFORMATION


C
B
A
1
2
3
4
5
6
7
PS704
22
17
R756
R758
Q713
QR702
D772
D771
QR701
C703
R728
C729
L718
D711
Q712
R727
L717
L719
C783
R741
R716
C732
C725
C734
R742
PS703
16
12
PS702
11
7
C797
C708
TUNER
IF
BM
AFC
BL
AGC
BH
BT
BU
TV +B
C798
C799
PS701
6
2
L701
R795
C706
C727
C738
C740
X711
R726
T703
L716
C715
R720
C726
T703
TP704
R709
R706
TP703
AFC
C764
L704
C730
D710
VCO
C743
TP707
T704
C745
C746
C736
C744
C739
R730
X712
C753, C755:
NV-J11AM/BD
JUMPER:
NV-J11EN/BA
IC701
TP709
R767
R703
R705
C723
R704
VR701
U.ASC
C7663
C7664
IC7652
R7675
R7691
R7680
C7676
C7655
C7670
R7674
R7676
R7671
R7673
R7672
C7671
C7677
QR7601
R7695
R7696
R7772
D7602
D7501
R773
R774
Q771
QR713
T712
VR751
AUDIO LEVEL
TP705
(NV-J11EN/BA)
C754
R752
R751
X714
C751
C752
C756
IC702
C761
C749
R739
R763
R746
C737
T711
SIF
R716
X710
C722
L711
C710
R721
C7662
C7661
R7679
R7676
C7667
R7677
C7666
C709
C705
C7678
C702
C7675
C7679
C701
D773
C748
C721
R701
QR715
(NV-J11AM/BD)

Back Page:
HEADAMP Section

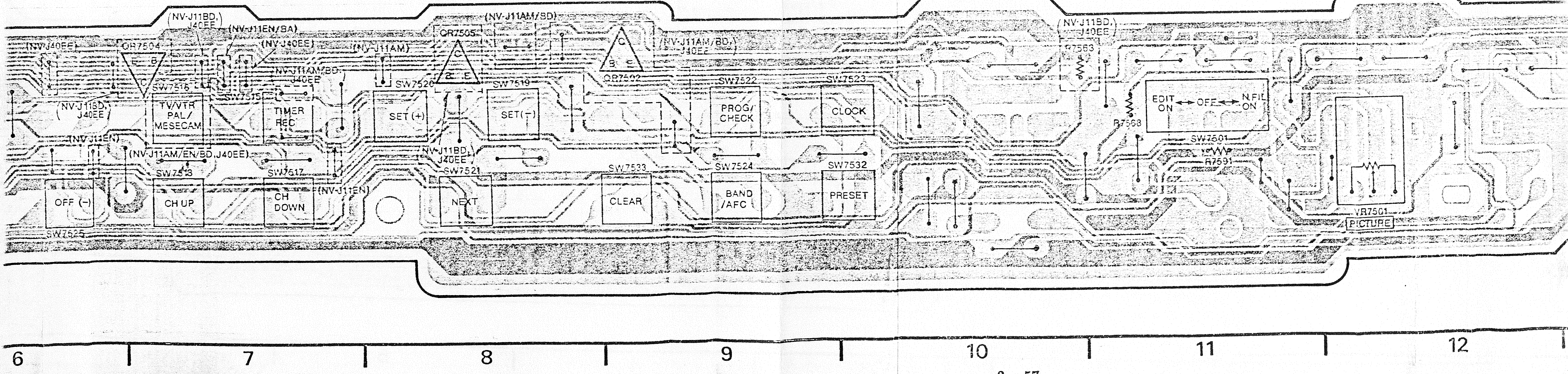
3-24. TIMER C.B.A. (VEP07637Q: NV-J11AM) (VEP07637H: NV-J11EN) (VEP07637T: NV-J11BA) (VEP07637U: NV-J11BD) (VEP07637R: NV-J40EE) & OPERATION C

TIMER C.B.A. (VEP07637Q: NV-J11AM) (VEP07637H: NV-J11EN) (VEP07637T: NV-J11BA) (VEP07637U: NV-J11BD) (VEP07637R: NV-J40EE)



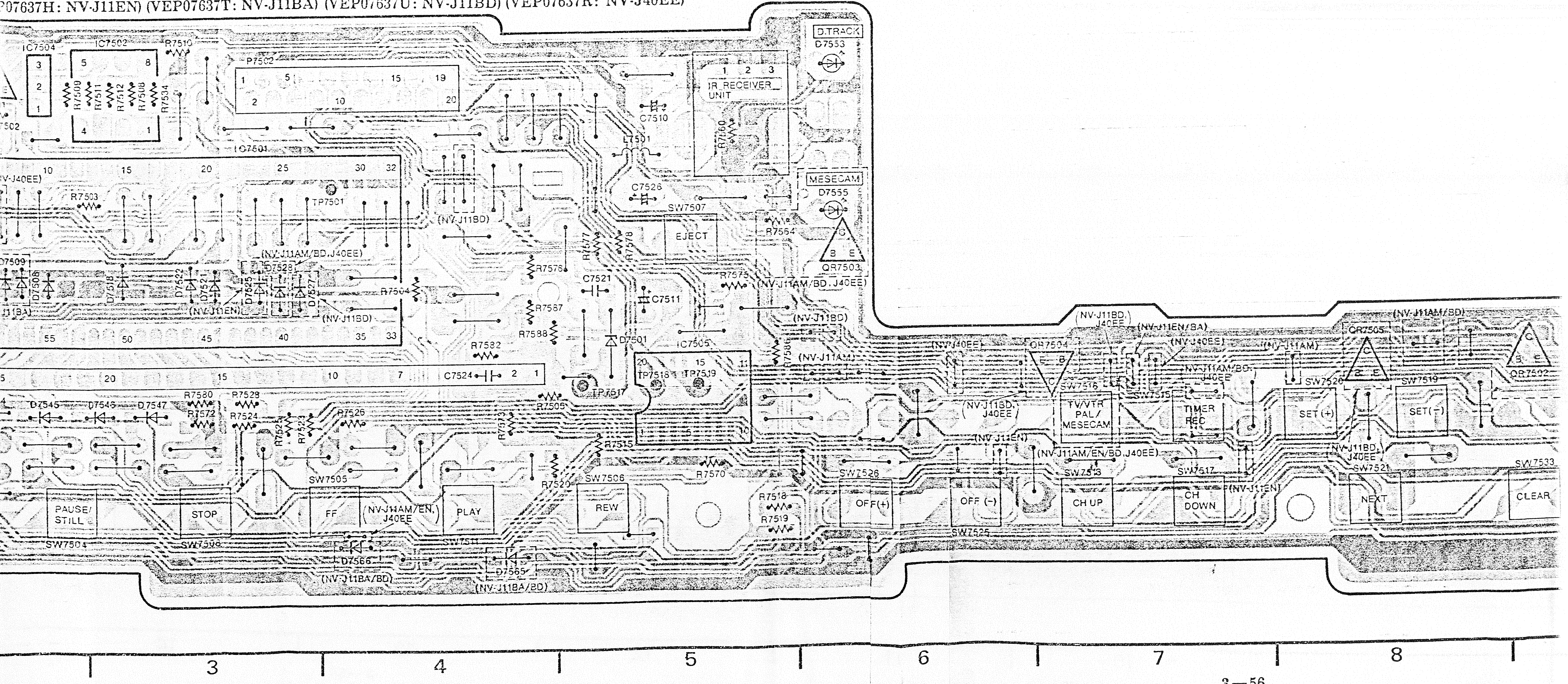
C
B
A
1
2
3
4
5
6
P7501
C7520
C7504
C7503
QR7501
R7502
X7502
IC7504
IC7502
R7509
R7511
R7512
R7508
R7534
R7510
P7502
IC7501
TP7501
C7510
L7501
IR RECEIVER UNIT
R7560
D.TRACK
D7553
MESECAM
D7555
(NV-J11AM/EN/BA/BD)
(NV-J40EE)
C7502
C7512
C7525
R7503
R7501
C7513
C7505
(NV-J11BD)
(NV-J11AM/BD,J40EE)
D7509
D7502
D7510
D7506
D7518
D7522
D7521
D7525
D7523
D7527
(NV-J11BA)
(NV-J11EN)
(NV-J11BD)
R7504
R7581
C7523
X7501
C7522
C7506
DP7501
C7526
SW7507
EJECT
R7554
QR7503
R7577
R7578
R7576
C7521
C7511
R7575
R7587
R7588
D7501
IC7505
R7582
R7586
(NV-J11AM)
(NV-J40EE)
QR7504
C7524
TP7518
TP7519
TP7517
R7505
D7540
D7539
D7544
D7545
D7546
D7547
R7580
R7528
R7572
R7524
R7526
R7522
R7523
R7513
R7515
R7570
C7501
TIMER CLOCK
C7507
SW7505
SW7506
R7520
R7518
R7519
SW7526
REC
PAUSE/STILL
STOP
FF
(NV-J11AM/EN,J40EE)
PLAY
REW
OFF(+)
OFF(-)
SW7513
SW7504
SW7509
SW7511
SW7525
D7566
D7565
(NV-J11BA/BD)
(NV-J11BD,J40EE)
(NV-J11EN)

) & OPERATION C.B.A. (VEP00R31A)


(NV-J40EE)
QR7504
E B C
(NV-J11BD, J40EE)
(NV-J11EN/BA)
(NV-J40EE)
(NV-J11AM)
(NV-J11AM/BD, J40EE)
SW7516
TV/VTR PAL/ MESECAM
SW7515
TIMER REC
SW7520
SET (+)
QR7505
C B E
(NV-J11AM/BD)
SW7519
SET (−)
QR7502
(NV-J11AM/BD, J40EE)
SW7522
PROG/ CHECK
SW7523
CLOCK
(NV-J11BD, J40EE)
R7563
R7568
EDIT ON
OFF
N.FIL ON
SW7501
R7591
VR7501
PICTURE
(NV-J11BD, J40EE)
(NV-J11EN)
(NV-J11AM/EN/BD, J40EE)
SW7513
CH UP
SW7517
CH DOWN
(NV-J11EN)
OFF (−)
SW7525
NV-J11BD, J40EE
SW7521
NEXT
SW7533
CLEAR
SW7524
BAND /AFC
SW7532
PRESET
6
7
8
9
10
11
12

(VEP07637H: NV-J11EN) (VEP07637T: NV-J11BA) (VEP07637U: NV-J11BD) (VEP07637R: NV-J40EE) & OPERATION C.B.A. (VEP00R31A)

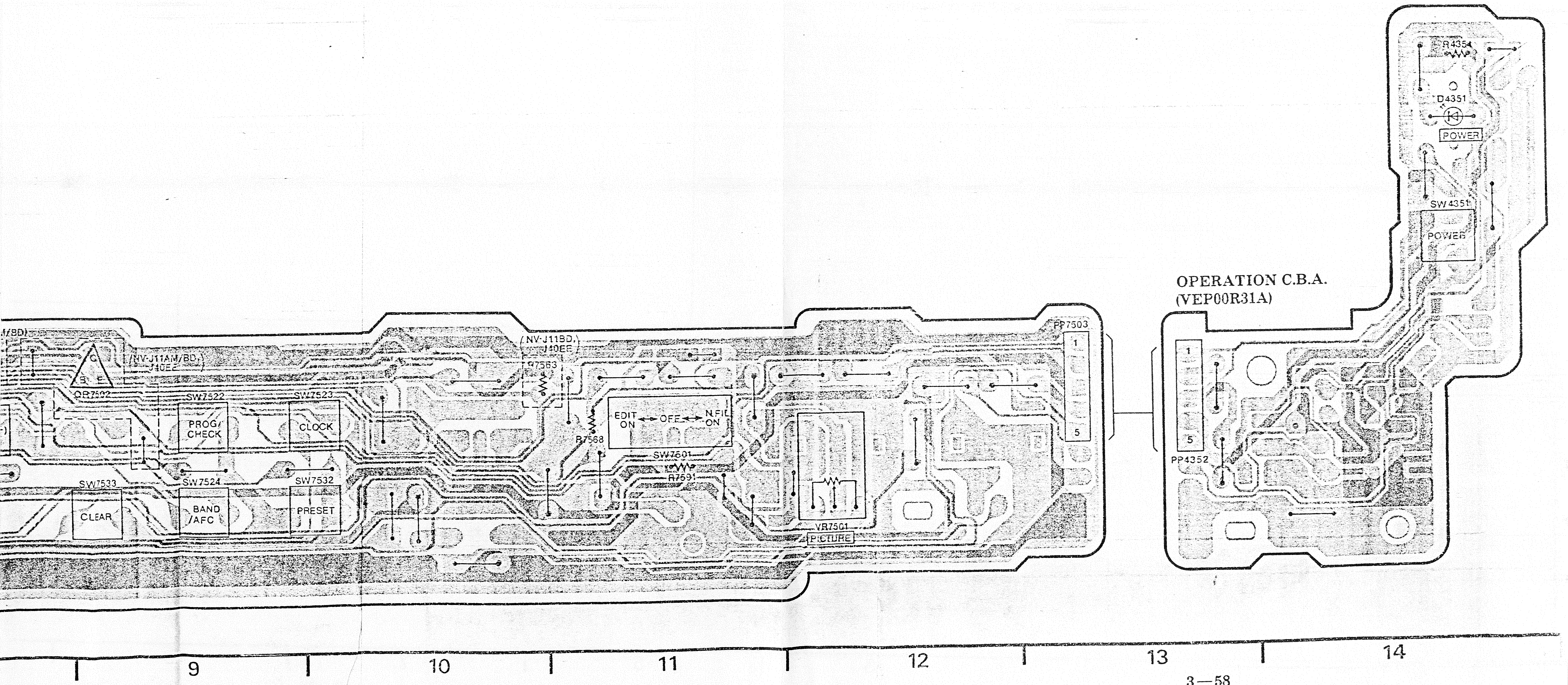
P07637H: NV-J11EN) (VEP07637T: NV-J11BA) (VEP07637U: NV-J11BD) (VEP07637R: NV-J40EE)



IC7504
IC7502
R7510
R7509
R7511
R7512
R7508
R7534
P7502
IC7501
R7503
TP7501
(NV-J11AM/BD,J40EE)
D7509
D7506
D7518
D7522
D7521
D7525
D7528
D7527
(NV-J11EN)
(NV-J11BD)
R7504
(NV-J11BD)
C7510
L7501
C7526
IR RECEIVER UNIT
R7560
D.TRACK
D7553
MESECAM
D7555
R7564
QR7503
SW7507
EJECT
R7576
R7577
R7578
C7521
C7511
R7575
(NV-J11AM/BD,J40EE)
R7587
R7588
D7501
R7582
IC7505
TP7518
TP7519
TP7517
C7524
D7545
D7546
D7547
R7580
R7572
R7528
R7524
R7526
R7525
R7523
R7513
R7505
R7515
R7520
R7570
R7518
R7519
SW7504
PAUSE/ STILL
SW7508
STOP
SW7505
FF
(NV-J11AM/EN, J40EE)
PLAY
SW7511
D7566
D7565
(NV-J11BA/BD)
(NV-J11BA/BD)
SW7506
REW
(NV-J11BD)
(NV-J11AM)
(NV-J40EE)
QR7504
(NV-J11BD, J40EE)
(NV-J11EN/BA)
(NV-J40EE)
(NV-J11AM)
(NV-J11AM/BD, J40EE)
SW7516
TV/VTR PAL/ MESECAM
SW7515
TIMER REC
SW7520
SET(+)
QR7505
SW7519
SET(−)
(NV-J11AM/BD)
QR7502
(NV-J11EN)
(NV-J11AM/EN/BD,J40EE)
SW7526
OFF(+)
SW7525
OFF (−)
SW7513
CH UP
SW7517
CH DOWN
(NV-J11EN)
(NV-J11BD, J40EE)
SW7521
NEXT
SW7533
CLEAR
3
4
5
6
7
8

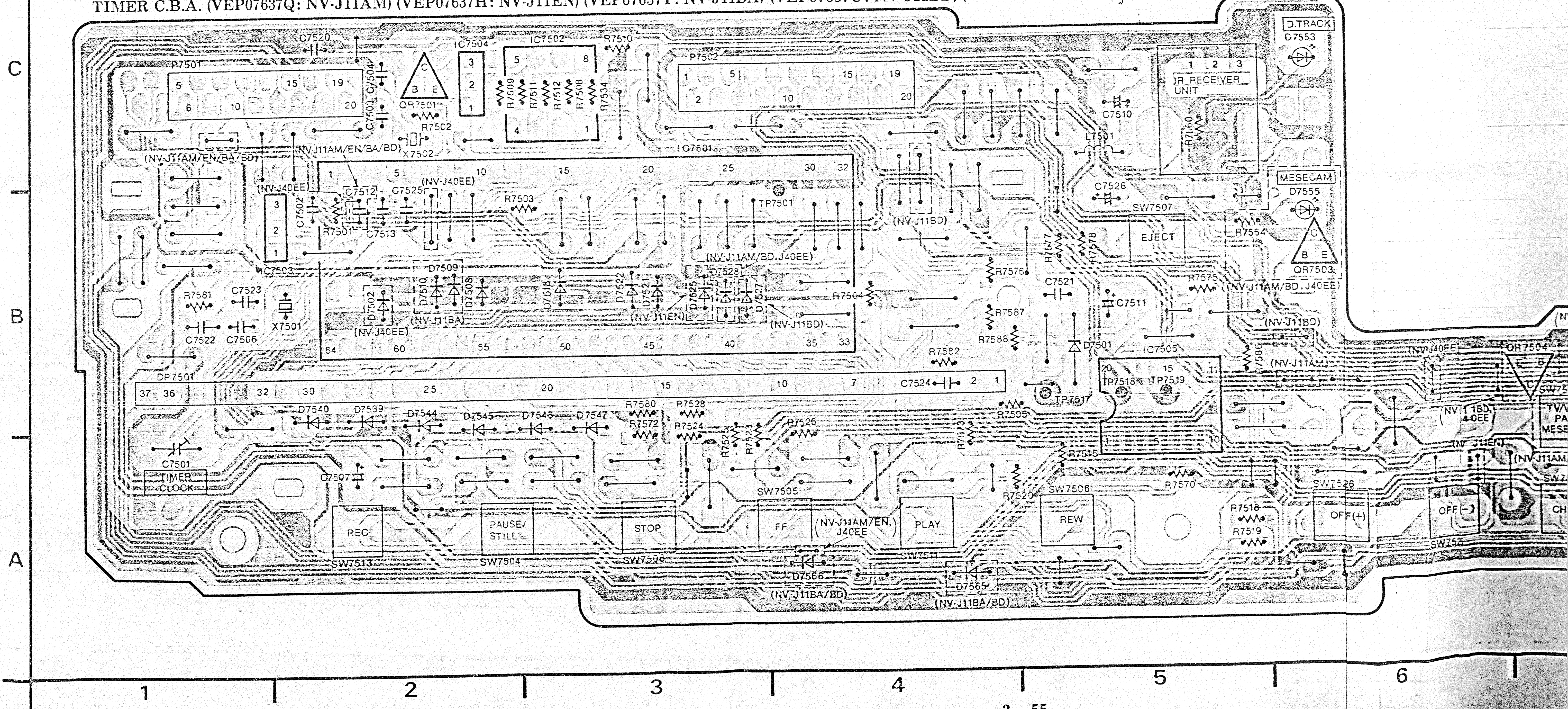
TIMER C.B.A. & OPERATION C.B.A.	
Transistor & Resistor	
QR7501	C-2
QR7502	B-9
QR7503	B-6
QR7504	B-7
QR7505	B-8
Integrated Circuit	
IC7501	C-3
IC7502	C-3
IC7503	B-2
IC7504	C-2
IC7505	B-5
Test Point	
TP7501	B-4
TP7517	B-5
TP7518	B-5
TP7519	B-5
Adjustment	
C7501	A-1
VR7501	A-12
Connector	
P7501	C-1
P7502	C-3
PP4352	A-13
PP7503	B-13

ADDRESS INFORMATION

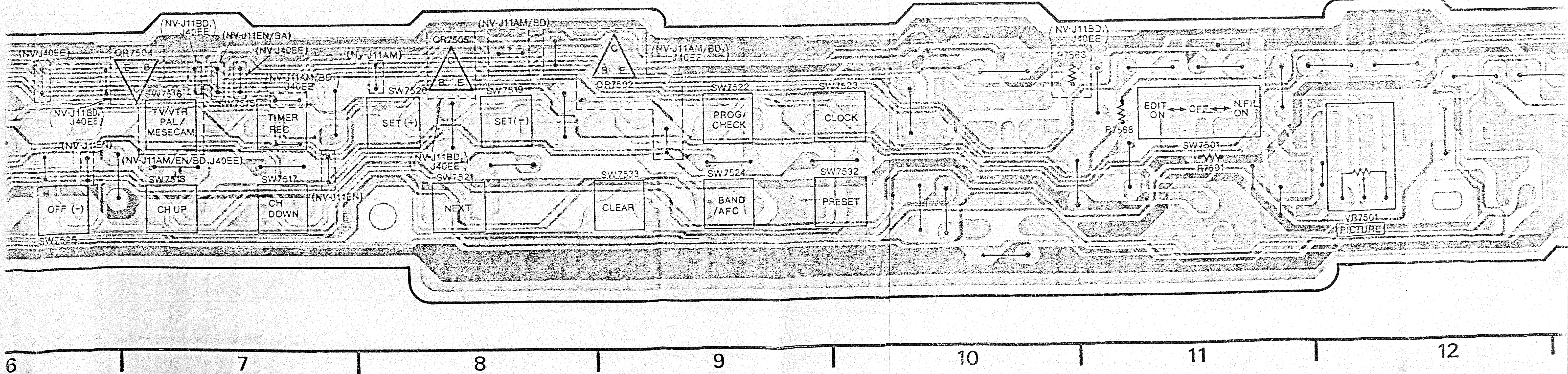

OPERATION C.B.A.
(VEP00R31A)
/BD)
C
B E
QR7502
(NV-J11AM/BD,
J40EE)
SW7522
PROG/
CHECK
SW7523
CLOCK
SW7533
CLEAR
SW7524
BAND
/AFC
SW7532
PRESET
(NV-J11BD,
J40EE)
R7563
R7568
EDIT
ON
OFF
N.FIL
ON
SW7501
R7591
VR7501
PICTURE
PP7503
1
5
1
5
PP4352
R4354
D4351
POWER
SW4351
POWER
9
10
11
12
13
14

3-24. TIMER C.B.A. (VEP07637Q: NV-J11AM) (VEP07637H: NV-J11EN) (VEP07637T: NV-J11BA) (VEP07637U: NV-J11BD) (VEP07637R: NV-J40EE) & OPERATION C

TIMER C.B.A. (VEP07637Q: NV-J11AM) (VEP07637H: NV-J11EN) (VEP07637T: NV-J11BA) (VEP07637U: NV-J11BD) (VEP07637R: NV-J40EE)


C
B
A
1
2
3
4
5
6
C7520
P7501
IC7504
IC7502
R7510
P7502
D.TRACK
D7553
C7504
C7503
QR7501
R7502
X7502
R7509
R7511
R7512
R7508
R7534
IR RECEIVER UNIT
R7560
C7510
L7501
IC7501
(NV-J11AM/EN/BA/BD)
(NV-J40EE)
C7512
C7525
(NV-J40EE)
R7503
TP7501
(NV-J11BD)
C7526
SW7507
MESECAM
D7555
C7502
R7501
C7513
IC7503
D7509
(NV-J11AM/BD,J40EE)
D7528
R7576
R7577
R7578
EJECT
R7554
QR7503
R7575
(NV-J11AM/BD,J40EE)
R7581
C7523
X7501
C7522
C7506
D7502
D7510
D7508
D7518
D7522
D7521
D7525
D7527
(NV-J11BA)
(NV-J40EE)
(NV-J11EN)
(NV-J11BD)
R7504
R7567
R7588
C7521
C7511
D7501
IC7505
R7586
(NV-J11BD)
(NV-J11AM)
(NV-J40EE)
QR7504
R7582
DP7501
C7524
TP7518
TP7519
TP7517
D7540
D7539
D7544
D7545
D7546
D7547
R7580
R7528
R7572
R7524
R7526
R7505
R7521
R7523
R7513
R7515
R7570
(NV-J11BD, J40EE)
(NV-J11EN)
(NV-J11AM)
C7501
TIMER CLOCK
C7507
SW7505
SW7506
R7520
SW7526
R7518
R7519
REC
PAUSE/STILL
STOP
FF
(NV-J11AM/EN, J40EE)
PLAY
REW
OFF(+)
OFF(−)
SW7513
SW7504
SW7509
SW7511
D7566
(NV-J11BA/BD)
D7565
(NV-J11BA/BD)
TV/V
SW75

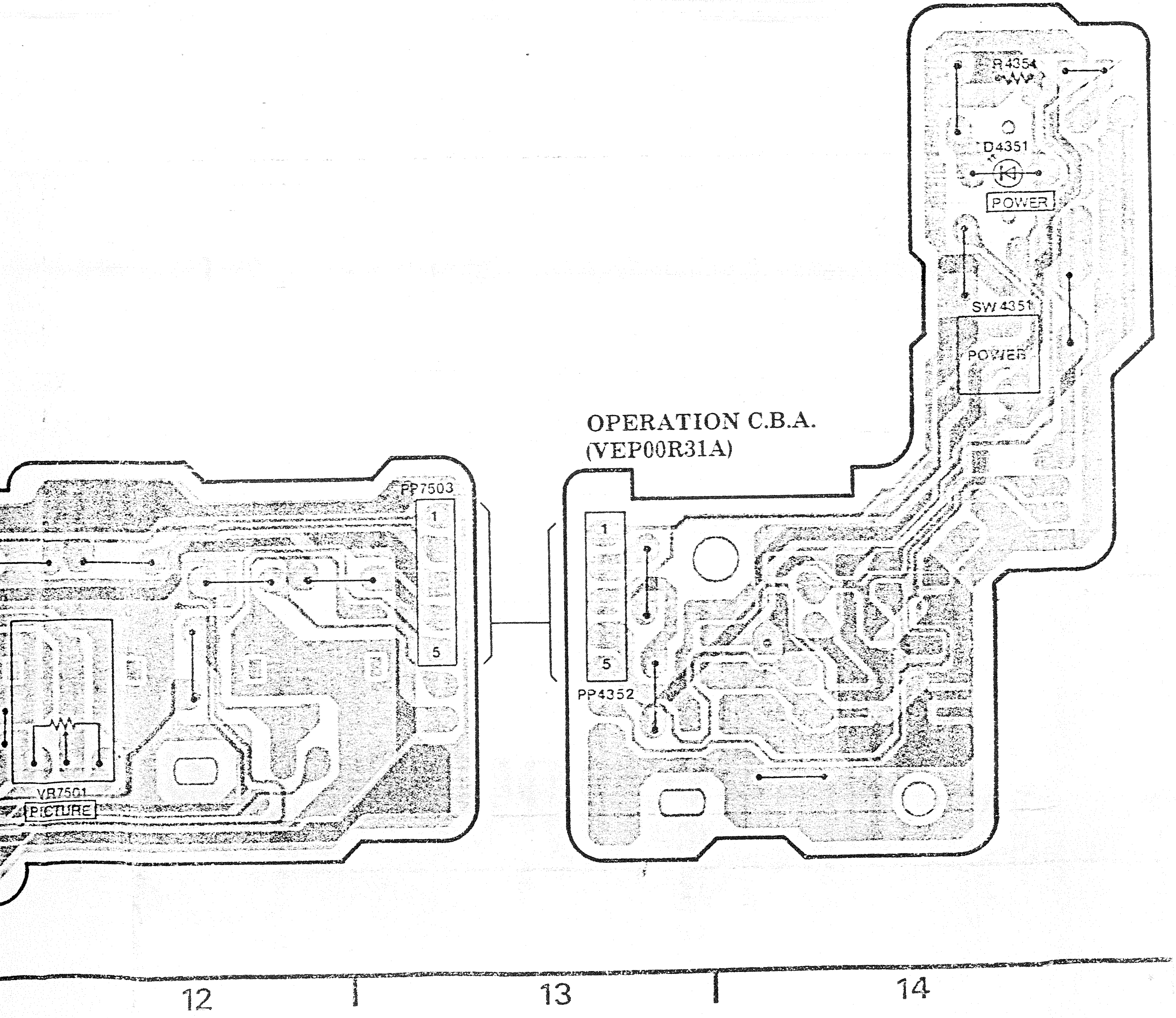
& OPERATION C.B.A. (VEP00R31A)


(NV-J40EE)
QR7504
(NV-J11BD, J40EE)
(NV-J11EN/BA)
(NV-J40EE)
SW7516
TV/VTR PAL/ MESECAM
SW7515
NV-J11AM/BD J40EE
TIMER REC
(NV-J11AM)
QR7505
(NV-J11AM/BD)
SW7520
SET (+)
SW7519
SET(−)
QR7502
(NV-J11AM/BD, J40EE)
SW7522
PROG/ CHECK
SW7523
CLOCK
(NV-J11BD, J40EE)
(NV-J11EN)
(NV-J11AM/EN/BD, J40EE)
SW7513
SW7517
OFF (−)
SW7525
CH UP
CH DOWN
(NV-J11EN)
NV-J11BD J40EE
SW7521
NEXT
SW7533
CLEAR
SW7524
BAND /AFC
SW7532
PRESET
(NV-J11BD, J40EE)
R7563
R7568
EDIT ON
OFF
N.FIL ON
SW7501
R7591
VR7501
PICTURE
6
7
8
9
10
11
12

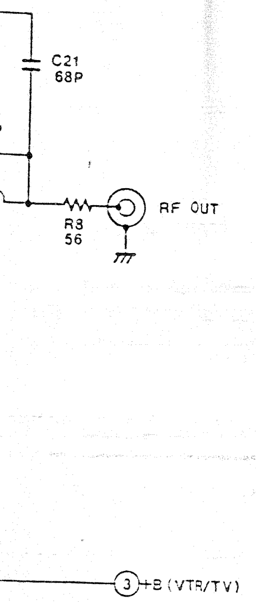
TIMER C.B.A. & OPERATION C.B.A.	
Transistor & Resistor	
QR7501	C-2
QR7502	B-9
QR7503	B-6
QR7504	B-7
QR7505	B-8
Integrated Circuit	
IC7501	C-3
IC7502	C-3
IC7503	B-2
IC7504	C-2
IC7505	B-5
Test Point	
TP7501	B-4
TP7517	B-5
TP7518	B-5
TP7519	B-5
Adjustment	
C7501	A-1
VR7501	A-12
Connector	
P7501	C-1
P7502	C-3
PP4352	A-13
PP7503	B-13

ADDRESS INFORMATION

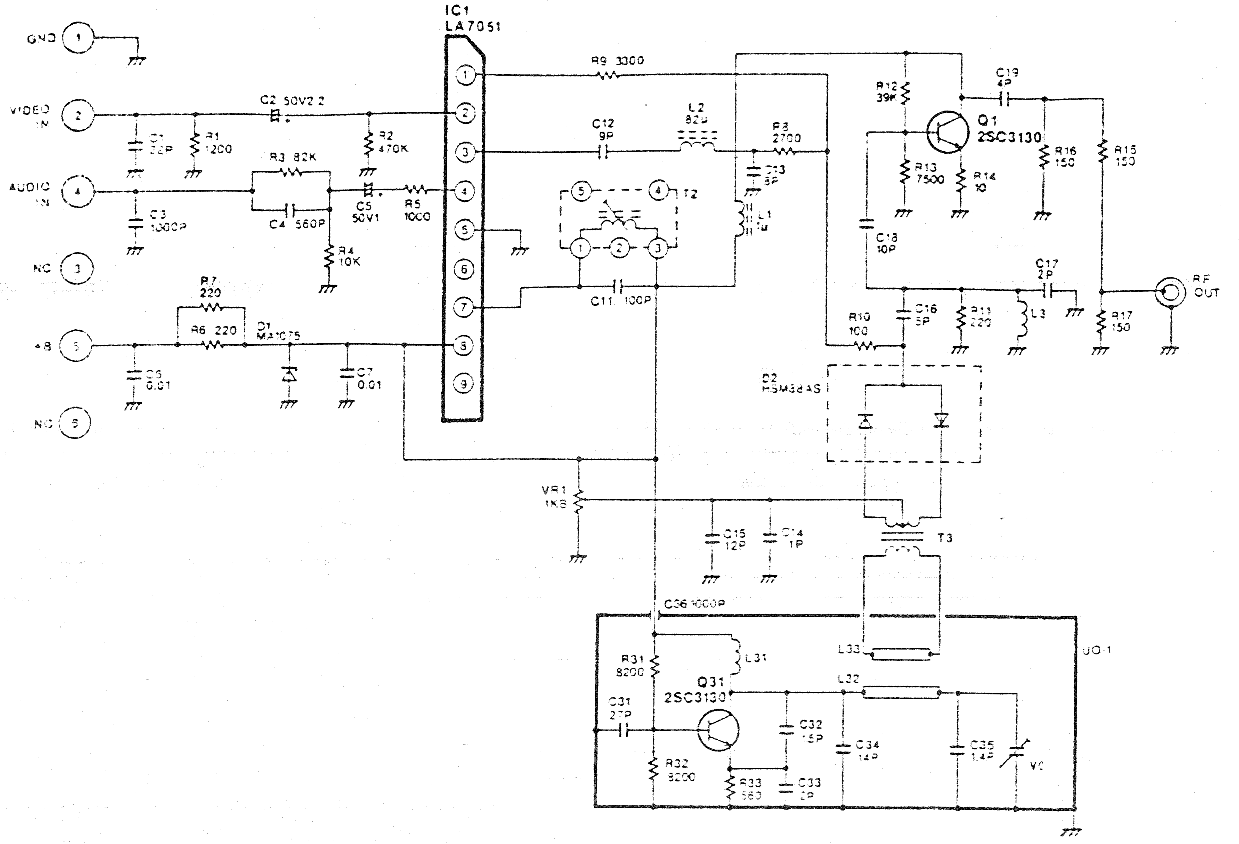
OPERATION C.B.A.
(VEP00R31A)


R4354
D4351
POWER
SW4351
POWER
PP7503
1
5
1
5
PP4352
VR7501
PICTURE
12
13
14

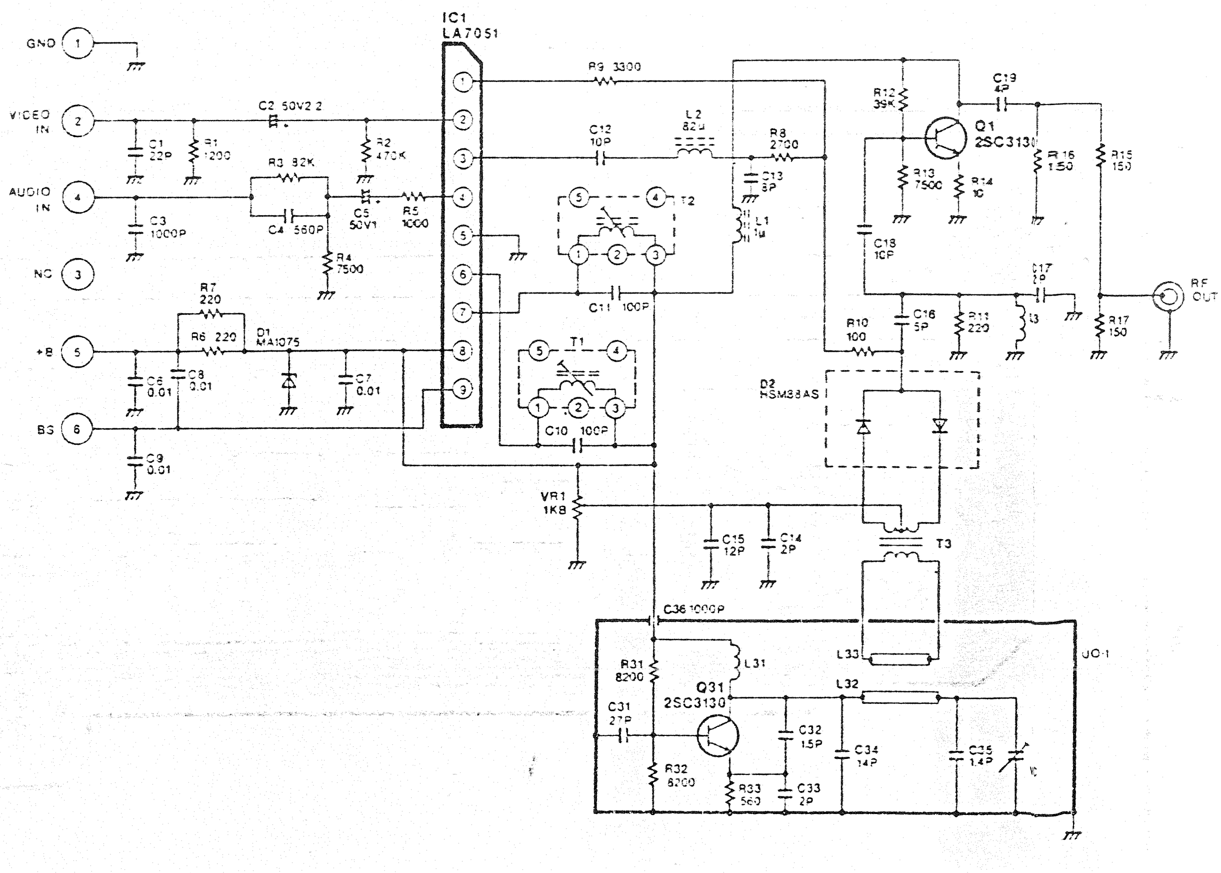
7905: NV-J11EN)


C21
68P
R8
56
RF OUT
3 +B (VTR/TV)

3-22. RF CONVERTER SCHEMATIC DIAGRAM (ENC17892: NV-J11BA)


IC1
LA7051
GND 1
VIDEO IN 2
AUDIO IN 4
NC 3
+B 5
NC 6
C1 22P
R1 1200
C2 50V2.2
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R5 1000
R4 10K
R7 220
R6 220
D1 MA1075
C6 0.01
C7 0.01
R9 3300
C12 9P
L2 82μ
R8 2700
C13 5P
L1 1μ
T2
C11 100P
R12 39K
Q1 2SC3130
C19 4P
R13 7500
R14 10
R16 150
R15 150
C18 10P
C17 2P
R10 100
C16 5P
R11 220
L3
R17 150
RF OUT
D2 HSM88AS
VR1 1K8
C15 12P
C14 1P
T3
C36 1000P
R31 8200
L31
L33
UO-1
Q31 2SC3130
L32
C31 27P
C32 15P
C34 14P
C35 1.4P
VC
R32 8200
R33 560
C33 2P

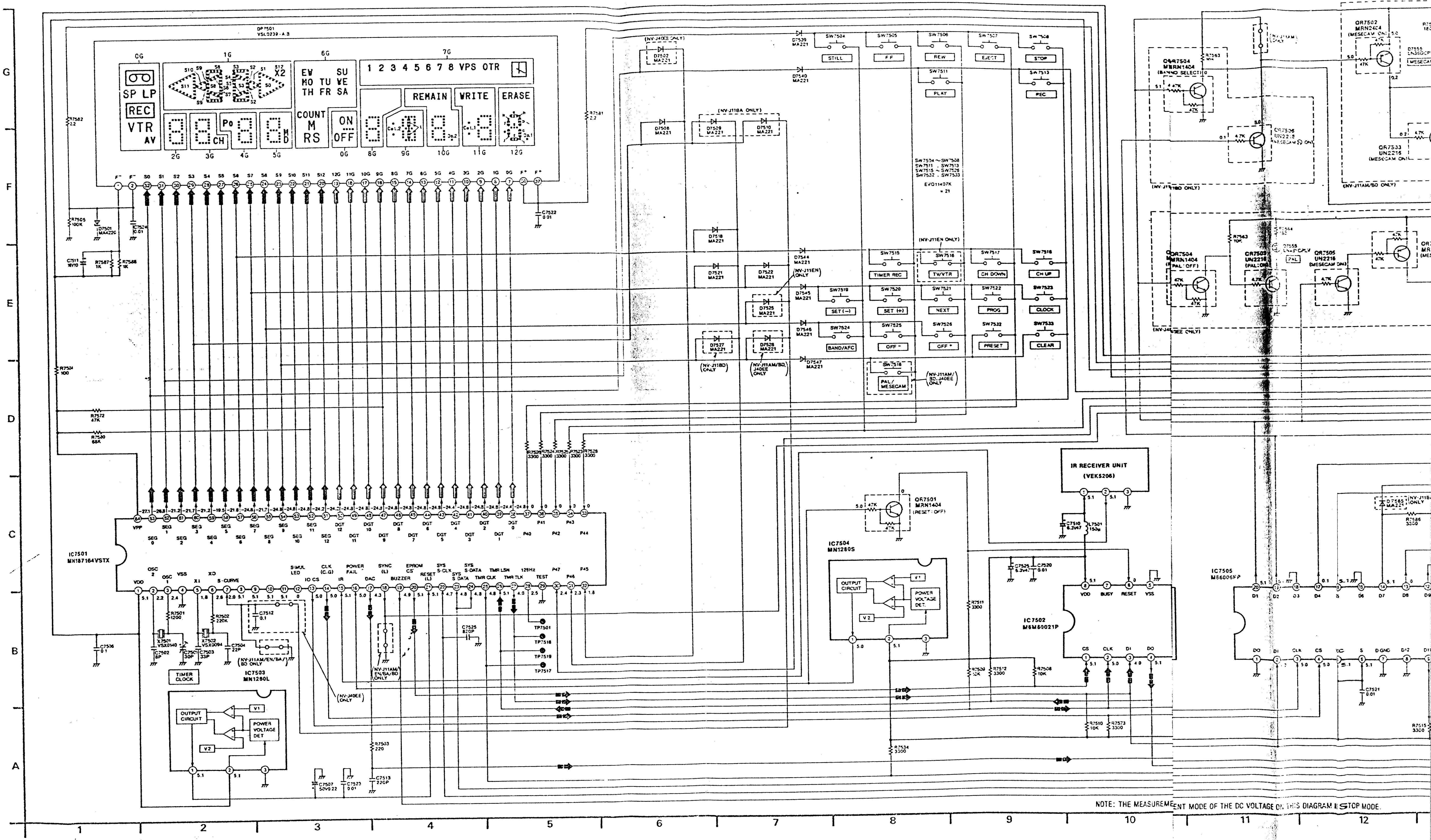
3-23. RF CONVERTER SCHEMATIC DIAGRAM (ENC17987: NV-J11BD)


IC1
LA7051
GND 1
VIDEO IN 2
AUDIO IN 4
NC 3
+B 5
BS 6
C1 22P
R1 1200
C2 50V2.2
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R5 1000
R4 7500
R7 220
R6 220
D1 MA1075
C6 0.01
C8 0.01
C7 0.01
C9 0.01
R9 3300
C12 10P
L2 82μ
R8 2700
C13 5P
L1 1μ
T2
C11 100P
T1
C10 100P
R12 39K
Q1 2SC3130
C19 4P
R13 7500
R14 10
R16 150
R15 150
C18 10P
C17 1P
R10 100
C16 5P
R11 220
L3
R17 150
RF OUT
D2 HSM88AS
VR1 1K8
C15 12P
C14 2P
T3
C36 1000P
R31 8200
L31
L33
UO-1
Q31 2SC3130
L32
C31 27P
C32 15P
C34 14P
C35 1.4P
VC
R32 8200
R33 560
C33 2P

Next Page:
TIMER & OPERATION Section

3-25. TIMER & OPERATION SCHEMATIC DIAGRAM

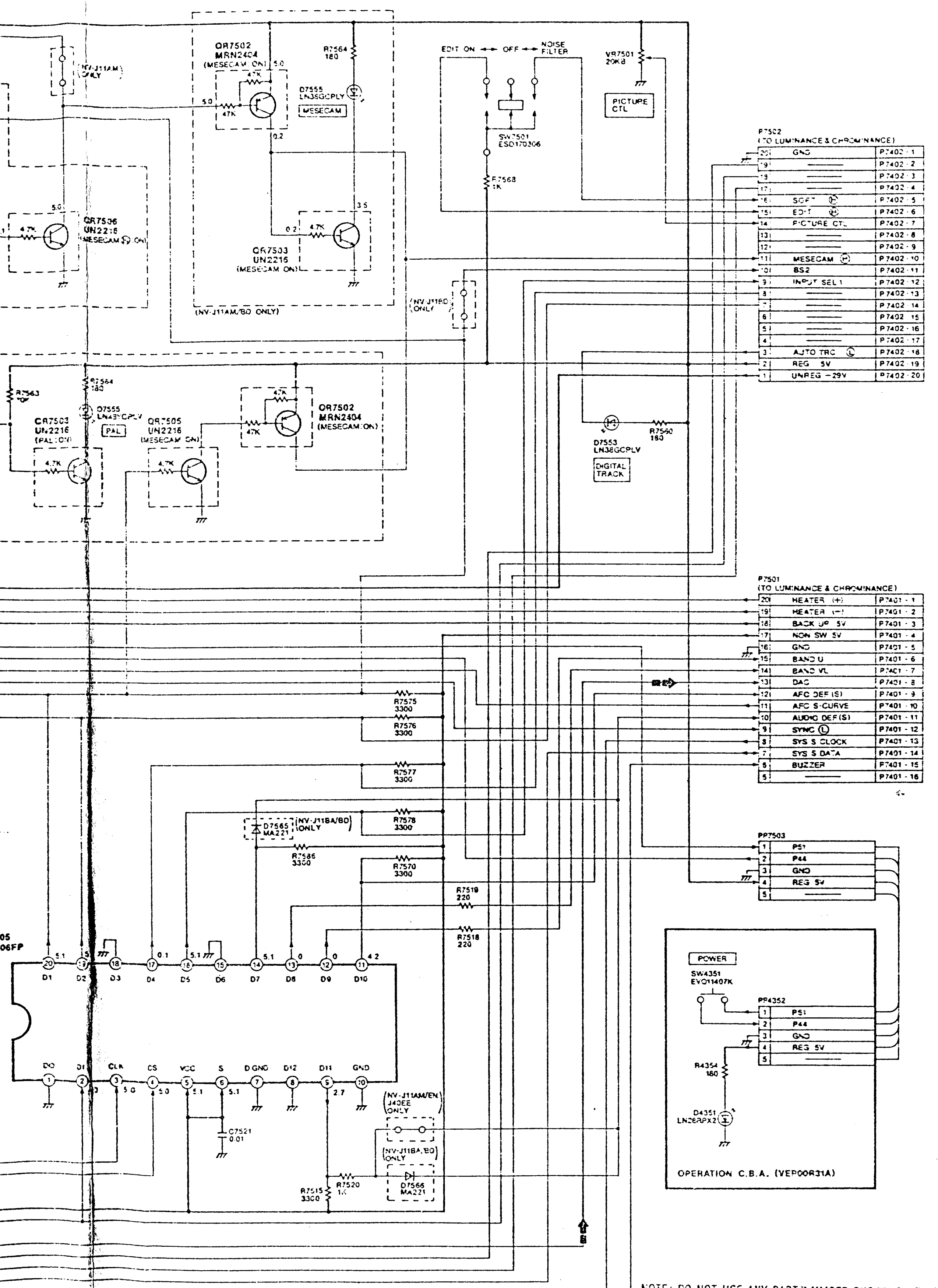
SEGMENT CONTROL SIGNAL　　GRID CONTROL SIGNAL　　TUNE CONTROL SIGNAL



DP7501 VSL0239-A3
IC7501 MN187164VSTX
IC7502 M6M80021P
IC7503 MN1280L
IC7504 MN1280S
IC7505 M66006FP
IR RECEIVER UNIT (VEK5206)
QR7501 MRN1404 (RESET : OFF)
QR7502 MRN2424
QR7504 MRN1404
QR7505 UN2216
QR7506 UN2216
QR7533 UN2216
SW7504 STILL
SW7505 FF
SW7506 REW
SW7507 EJECT
SW7508 STOP
SW7511 PLAY
SW7513 REC
SW7515 TIMER REC
SW7516 TV/VTR
SW7517 CH DOWN
SW7518 CH UP
SW7519 SET (−)
SW7520 SET (+)
SW7521 NEXT
SW7522 PROG
SW7523 CLOCK
SW7524 BAND/AFC
SW7525 OFF −
SW7526 OFF +
SW7532 PRESET
SW7533 CLEAR
SW7536 PAL/MESECAM
SW7504 ~ SW7508, SW7511, SW7513, SW7515 ~ SW7526, SW7532, SW7533 EVQ11407K × 21
TIMER CLOCK
OUTPUT CIRCUIT
POWER VOLTAGE DET
V1
V2
(NV-J40EE ONLY)
(NV-J11BA ONLY)
(NV-J11EN ONLY)
(NV-J11AM/BD ONLY)
TP7501
TP7518
TP7519
TP7517

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

OL SIGNAL


QR7502
MRN2404
(MESECAM ON)
47K
5.0
R7564
180
D7555
LN35GCPLY
MESECAM
QR7503
UN2216
(MESECAM ON)
0.2
3.5
(NV-J11AM/BD ONLY)
(NV-J11AM) ONLY
QR7506
UN2216
(MESECAM ON)
4.7K
EDIT ON ◄— OFF —► NOISE FILTER
SW7501
ESD170306
R7568
1K
VR7501
20KB
PICTURE CTL
(NV-J11BD ONLY)
R7563
R7564
180
D7555
LN43YCPLY
PAL
QR7503
UN2216
(PAL ON)
QR7505
UN2216
(MESECAM ON)
QR7502
MRN2404
(MESECAM ON)
D7553
LN38GCPLV
R7560
180
DIGITAL TRACK
P7502
(TO LUMINANCE & CHROMINANCE)
20 GND P7402-1
19 P7402-2
18 P7402-3
17 P7402-4
16 SOFT Ⓗ P7402-5
15 EDIT Ⓗ P7402-6
14 PICTURE CTL P7402-7
13 P7402-8
12 P7402-9
11 MESECAM Ⓗ P7402-10
10 BS2 P7402-11
9 INPUT SEL 1 P7402-12
8 P7402-13
7 P7402-14
6 P7402-15
5 P7402-16
4 P7402-17
3 AUTO TRC Ⓛ P7402-18
2 REG 5V P7402-19
1 UNREG −29V P7402-20
P7501
(TO LUMINANCE & CHROMINANCE)
20 HEATER (+) P7401-1
19 HEATER (−) P7401-2
18 BACK UP 5V P7401-3
17 NON SW 5V P7401-4
16 GND P7401-5
15 BAND U P7401-6
14 BAND VL P7401-7
13 DAC P7401-8
12 AFC DEF (S) P7401-9
11 AFC S-CURVE P7401-10
10 AUDIO DEF (S) P7401-11
9 SYNC Ⓛ P7401-12
8 SYS S CLOCK P7401-13
7 SYS S DATA P7401-14
6 BUZZER P7401-15
5 P7401-16
R7575
3300
R7576
3300
R7577
3300
D7565
MA221
(NV-J11BA/BD) ONLY
R7578
3300
R7586
3300
R7570
3300
R7519
220
R7518
220
PP7503
1 PS1
2 P44
3 GND
4 REG 5V
5
05
06FP
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10
DO DI CLK CS VCC S D GND D12 D11 GND
5.1
0.1
5.0
2.7
4.2
C7521
0.01
(NV-J11AM/EN J40EE ONLY)
(NV-J11BA/BD) ONLY
R7520
1K
D7566
MA221
R7515
3300
POWER
SW4351
EVQ11407K
PP4352
1 PS1
2 P44
3 GND
4 REG 5V
5
R4354
180
D4351
LN26RPX2
OPERATION C.B.A. (VEP00R31A)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

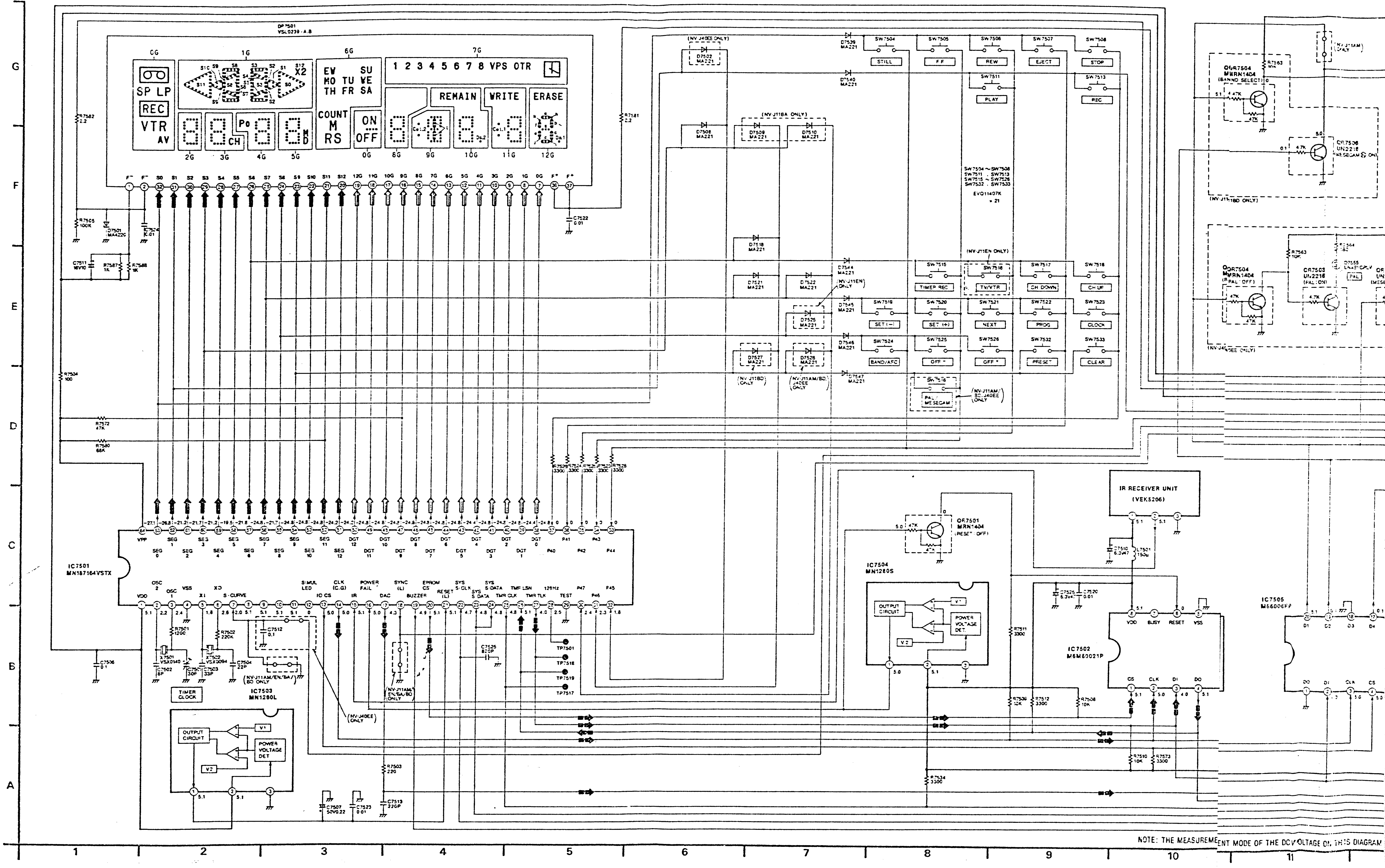
IE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

11 12 13 14 15

Next Page:
REMOTE CONTROLLER Section

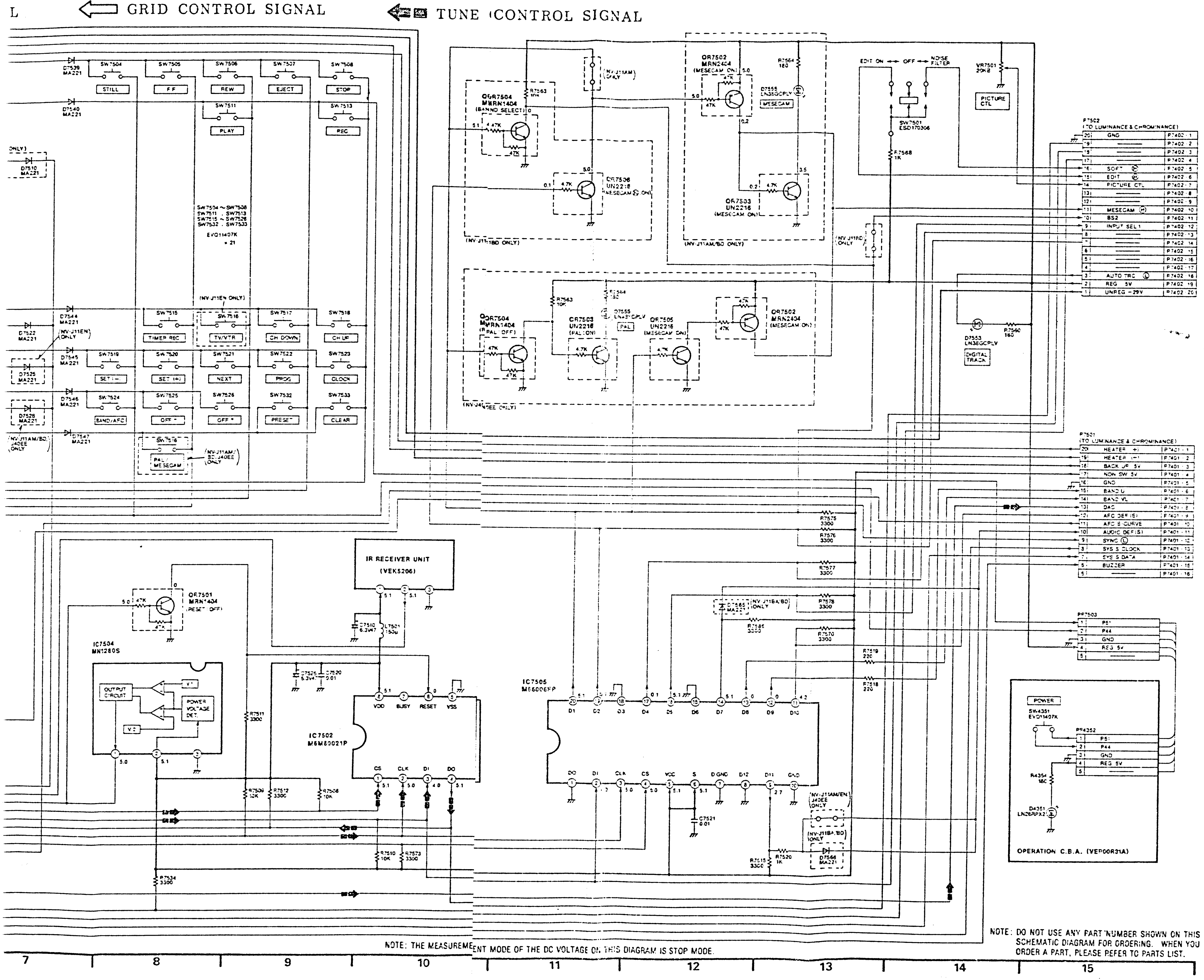
3-25. TIMER & OPERATION SCHEMATIC DIAGRAM

SEGMENT CONTROL SIGNAL GRID CONTROL SIGNAL TUNE CONTROL SIGNAL



DP7501
VSL0239-A.B
SP LP
REC
VTR
AV
CH
COUNT
M
RS
ON
OFF
REMAIN
WRITE
ERASE
EW SU
MO TU WE
TH FR SA
1 2 3 4 5 6 7 8 VPS OTR
X2
SW7504 STILL
SW7505 F.F
SW7506 REW
SW7507 EJECT
SW7508 STOP
SW7511 PLAY
SW7513 REC
SW7515 TIMER REC
SW7516 TV/VTR
SW7517 CH DOWN
SW7518 CH UP
SW7519 SET (−)
SW7520 SET (+)
SW7521 NEXT
SW7522 PROG
SW7523 CLOCK
SW7524 BAND/AFC
SW7525 OFF
SW7526 OFF
SW7532 PRESET
SW7533 CLEAR
SW7518 PAL/MESECAM
SW7504~SW7508
SW7511 , SW7513
SW7515 ~ SW7526
SW7532 , SW7533
EVQ11407K
× 21
(NV-J40EE ONLY)
(NV-J11BA ONLY)
(NV-J11EN ONLY)
(NV-J11BD ONLY)
(NV-J11AM/BD/J40EE ONLY)
QR7504
MRN1404
(BAND SELECT)
QR7506
UN2216
(MESECAM ON)
QR7503
UN2216
(PAL ON)
(PAL OFF)
IC7501
MN187164VSTX
IC7502
M6M80021P
IC7503
MN1280L
IC7504
MN1280S
IC7505
M6600FP
QR7501
MRN1404
(RESET OFF)
IR RECEIVER UNIT
(VEK5206)
TIMER CLOCK
OUTPUT CIRCUIT
POWER VOLTAGE DET
X7501
VSX0140
X7502
VSX0094
TP7501
TP7518
TP7519
TP7517
VDD
BUSY
RESET
VSS
CS
CLK
DI
DO
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM

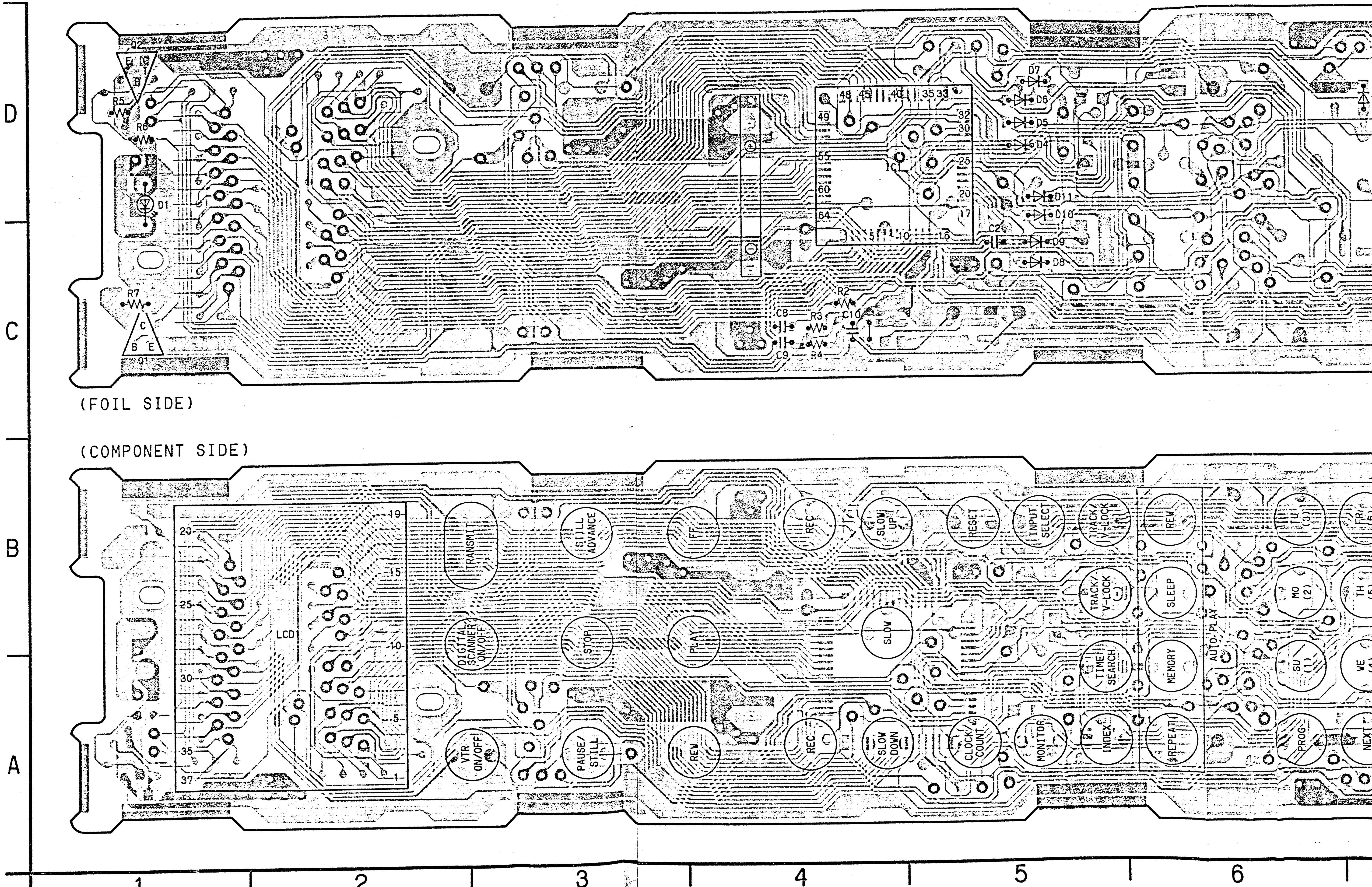

GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
SW7504 STILL
SW7505 FF
SW7506 REW
SW7507 EJECT
SW7508 STOP
SW7511 PLAY
SW7513 REC
D7539 MA221
D7540 MA221
SW7504 ~ SW7508 SW7511 · SW7513 SW7515 ~ SW7526 SW7532 · SW7533 EVQ11407K × 21
SW7515 TIMER REC
SW7516 TV/VTR
SW7517 CH DOWN
SW7518 CH UP
SW7519 SET (−)
SW7520 SET (+)
SW7521 NEXT
SW7522 PROG
SW7523 CLOCK
SW7524 BAND/AFC
SW7525 OFF *
SW7526 OFF *
SW7532 PRESET
SW7533 CLEAR
SW7516 PAL/MESECAM
QR7504 MRN1404 (BAND SELECT)
QR7506 UN2216 (MESECAM ON)
QR7502 MRN2404 (MESECAM ON)
QR7503 UN2216 (MESECAM ON)
D7555 LN38GCPLV MESECAM
R7564 180
R7563 10K
EDIT ON ← OFF → NOISE FILTER
SW7501 ESD170306
R7568 1K
VR7501 20KB PICTURE CTL
QR7505 UN2216 (PAL ON)
D7555 LN38GCPLV PAL
D7553 LN38GCPLV DIGITAL TRACK
R7560 180
(NV-J11AM ONLY)
(NV-J11BD ONLY)
(NV-J11AM/BD ONLY)
(NV-J11EN ONLY)
(NV-J40EE ONLY)
P7502 (TO LUMINANCE & CHROMINANCE)
GND
SOFT
EDIT
PICTURE CTL
MESECAM
BS2
INPUT SEL 1
AUTO TRC
REG 5V
UNREG -29V
P7501 (TO LUMINANCE & CHROMINANCE)
HEATER (+)
HEATER (−)
BACK UP 5V
NON SW 5V
GND
BAND U
BAND VL
DAC
AFC DEF(S)
AFC S CURVE
AUDIO DEF(S)
SYNC
SYS S CLOCK
SYS S DATA
BUZZER
PP7503
P5I
P44
GND
REG 5V
IR RECEIVER UNIT (VEK5206)
QR7501 MRN1404 (RESET OFF)
IC7504 MN1280S
OUTPUT CIRCUIT
POWER VOLTAGE DET.
IC7502 M6M80021P
VDD BUSY RESET VSS
CS CLK DI DO
IC7505 M56006FP
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10
DO DI CLK CS VCC S DGND D12 D11 GND
R7575 3300
R7576 3300
R7577 3300
R7578 3300
R7570 3300
R7519 220
R7518 220
R7534 3300
R7510 10K
R7573 3300
R7520 1K
D7566 MA221
C7521 0.01
POWER
SW4351 EVQ11407K
PS4352
R4354 180
D4351 LN26RPX2
OPERATION C.B.A. (VEP00R31A)
7
8
9
10
11
12
13
14
15

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

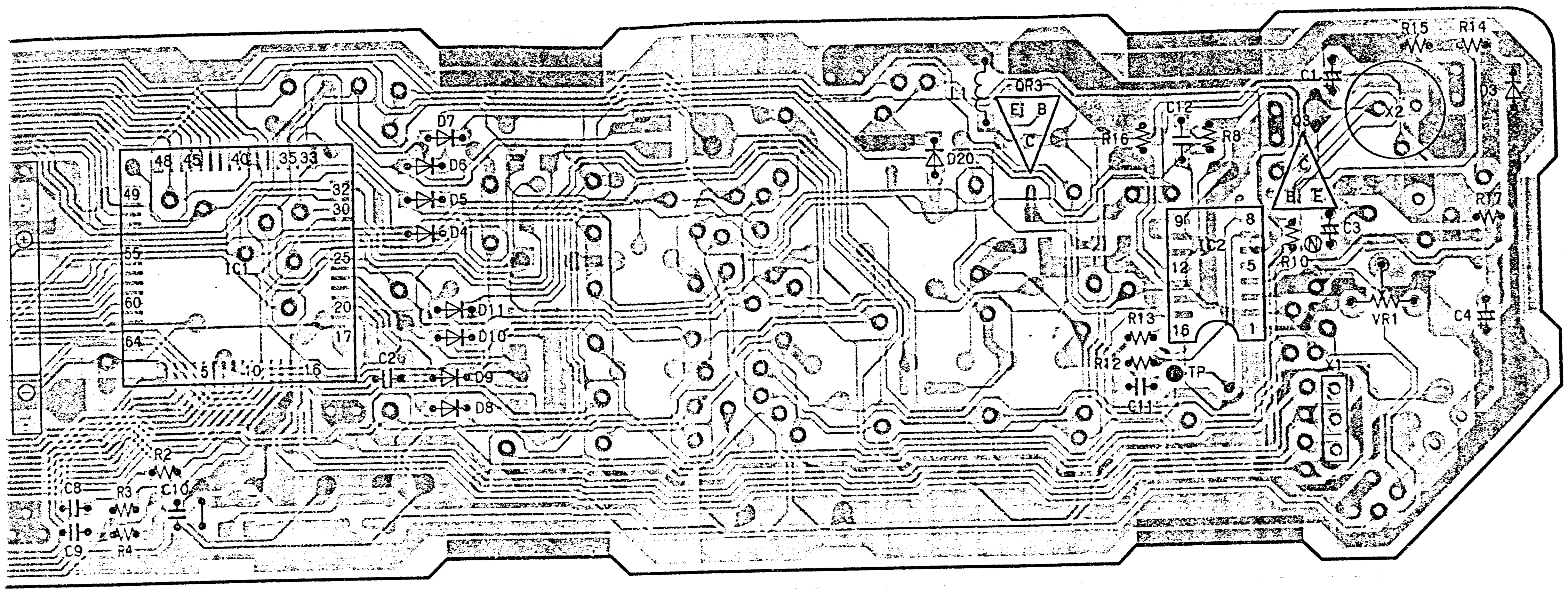
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

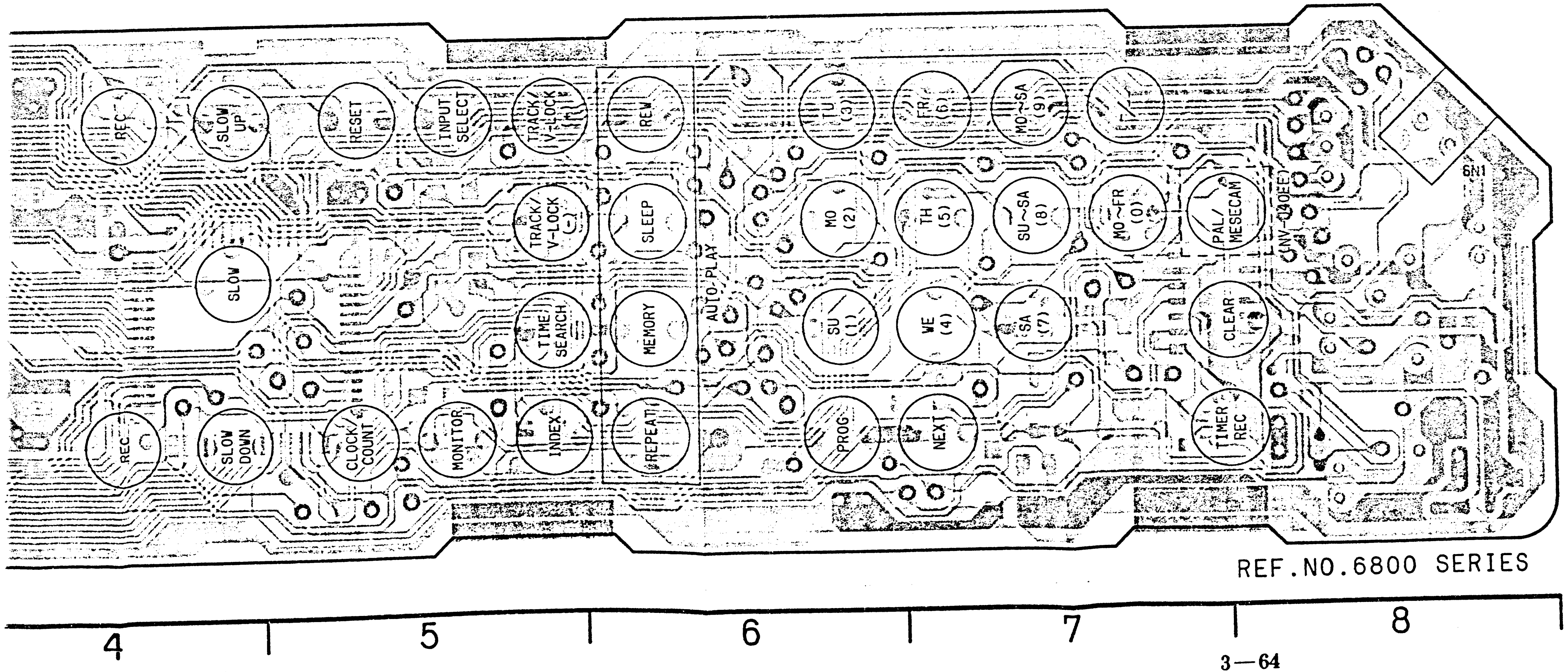
Next Page:
REMOTE CONTROLLER Section

3-26. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) C.B.A.. (VEP66178H: NV-J11BA, J40EE)


D
C
B
A
1
2
3
4
5
6
(FOIL SIDE)
(COMPONENT SIDE)
Q1
Q2
R2
R3
R4
R5
R6
R7
D1
D4
D5
D6
D7
D8
D9
D10
D11
C2
C8
C9
C10
IC1
LCD1
TRANSMIT
STILL ADVANCE
FF
REC
SLOW UP
RESET
INPUT SELECT
TRACK/ V-LOCK (+)
REW
TU (3)
FR (6)
TRACK/ V-LOCK (-)
SLEEP
MO (2)
TH (5)
DIGITAL SCANNER ON/OFF
STOP
PLAY
SLOW
TIME SEARCH
MEMORY
AUTO-PLAY
SU (1)
WE (4)
VTR ON/OFF
PAUSE/ STILL
REW
REC
SLOW DOWN
CLOCK/ COUNT
MONITOR
INDEX
REPEAT
PROG
NEXT

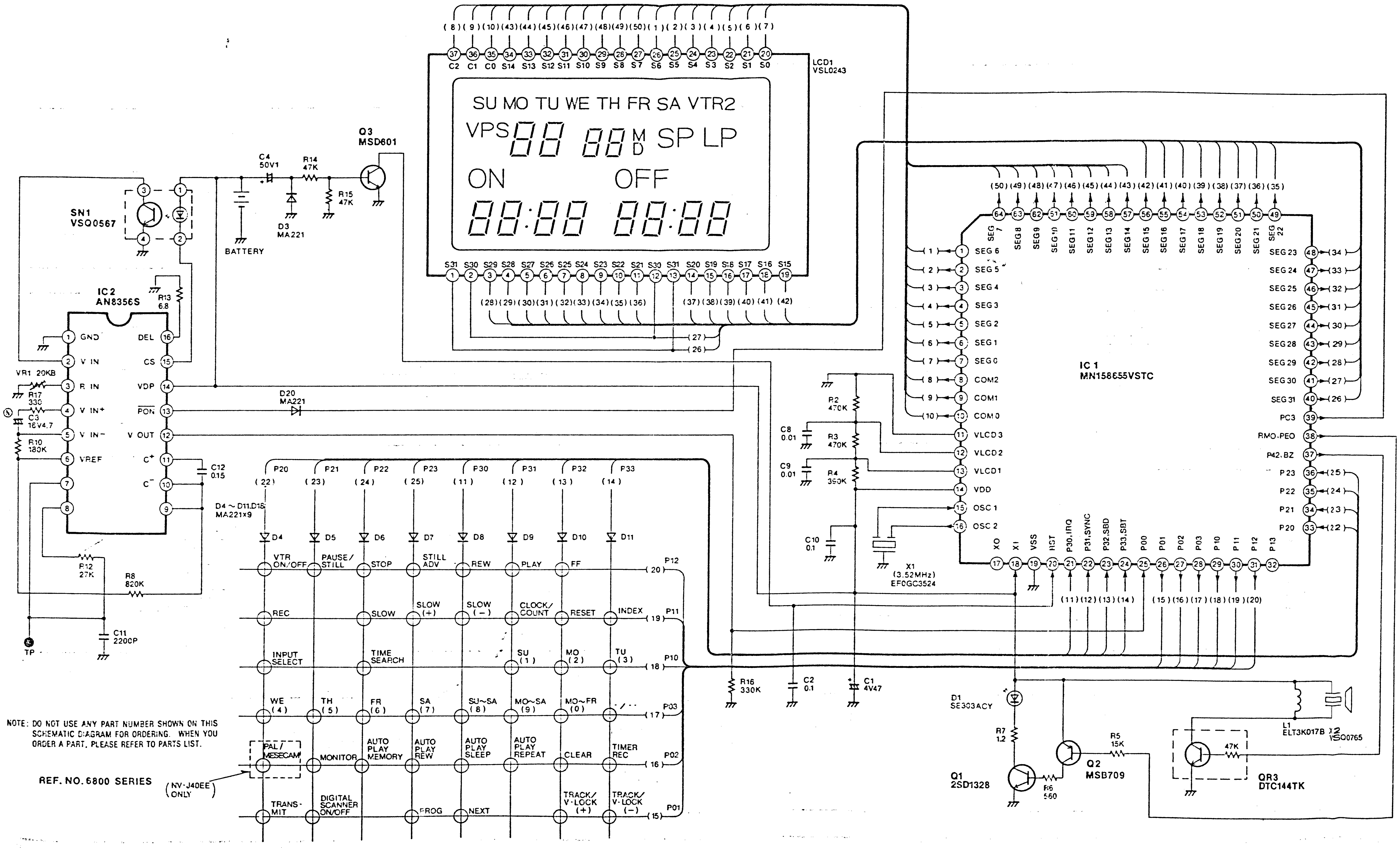
H: NV-J11BA, J40EE)


IC1
48
45
40
35
33
32
30
25
20
17
16
10
5
49
55
60
64
D7
D6
D5
D4
D11
D10
D9
D8
C2
R2
C8
R3
C10
C9
R4
D20
QR3
E
B
C
R16
C12
R8
IC2
9
8
12
5
16
1
R13
R12
TP
C11
R15
R14
C1
D3
X2
Q3
C
B
E
R17
C3
R10
VR1
C4
X1


REC
SLOW UP
RESET
INPUT SELECT
TRACK/ V-LOCK (+)
REW
TU (3)
FR (6)
MO~SA (9)
SLOW
TRACK/ V-LOCK (-)
SLEEP
MO (2)
TH (5)
SU~SA (8)
MO~FR (0)
PAL/ MESECAM
(NV-J40EE)
6N1
TIME SEARCH
MEMORY
AUTO PLAY
SU (1)
WE (4)
SA (7)
CLEAR
REC
SLOW DOWN
CLOCK/ COUNT
MONITOR
INDEX
REPEAT
PROG
NEXT
TIMER REC
4
5
6
7
8

REF.NO.6800 SERIES

3-27. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) SCHEMATIC DIAGRAM
—UNIT NO.: VEQ1252 (NV-J11BA), VEQ1256 (NV-J40EE)—

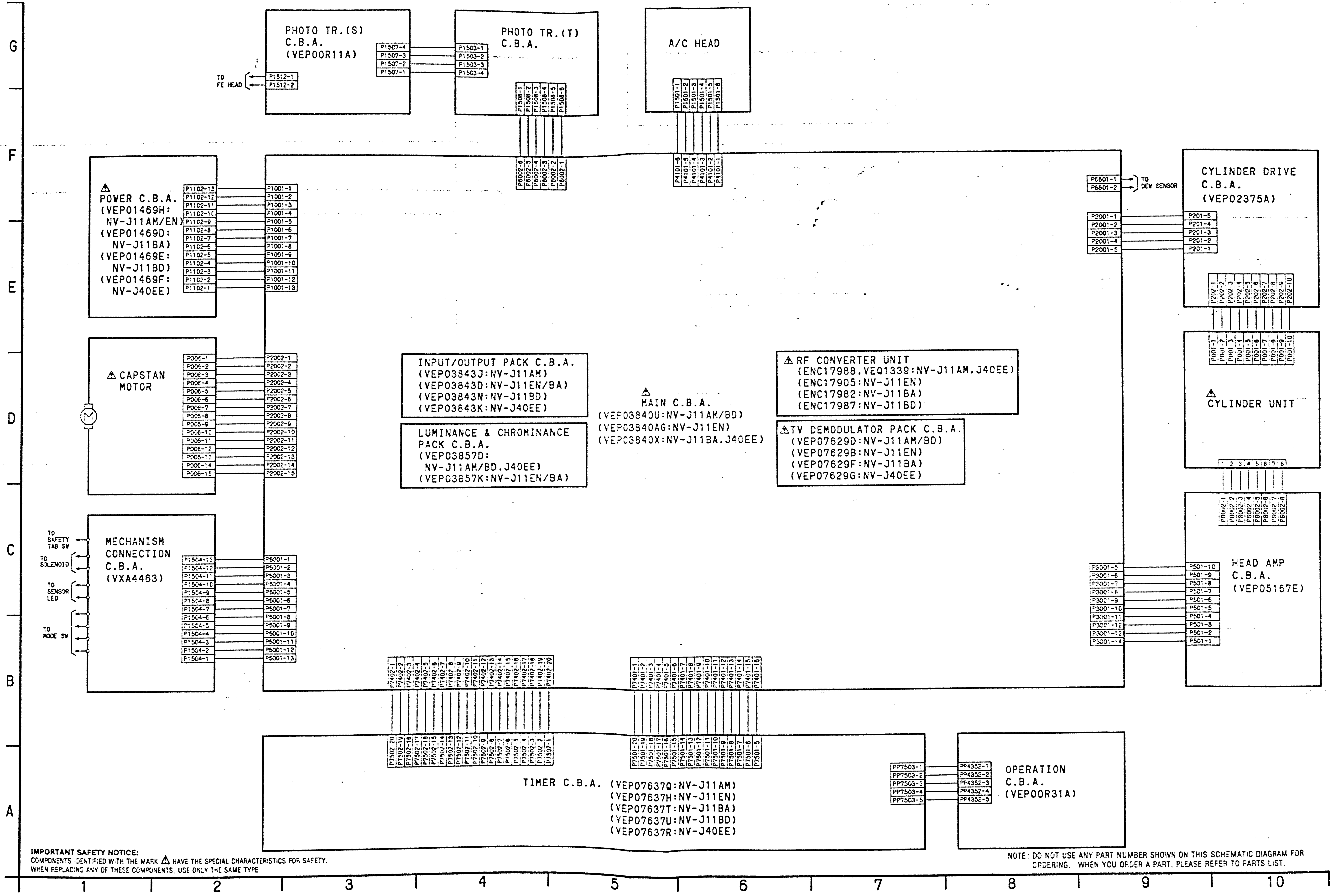


LCD1
VSL0243
SU MO TU WE TH FR SA VTR2
VPS
M
D
SP LP
ON
OFF
C2 C1 C0 S14 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 S0
S31 S30 S29 S28 S27 S26 S25 S24 S23 S22 S21 S30 S31 S20 S19 S18 S17 S16 S15
Q3
MSD601
C4
50V1
R14
47K
R15
47K
D3
MA221
BATTERY
SN1
VSQ0567
IC2
AN8356S
R13
6.8
GND
V IN
R IN
V IN+
V IN−
VREF
DEL
CS
VDP
PON
V OUT
C+
C−
VR1 20KB
R17
330
C3
16V4.7
R10
180K
C12
0.15
R12
27K
R8
820K
C11
220P
TP
D20
MA221
D4 ~ D11,D18
MA221x9
P20 P21 P22 P23 P30 P31 P32 P33
D4 D5 D6 D7 D8 D9 D10 D11
VTR ON/OFF
PAUSE/ STILL
STOP
STILL ADV
REW
PLAY
FF
REC
SLOW
SLOW (+)
SLOW (−)
CLOCK/ COUNT
RESET
INDEX
INPUT SELECT
TIME SEARCH
SU (1)
MO (2)
TU (3)
WE (4)
TH (5)
FR (6)
SA (7)
SU~SA (8)
MO~SA (9)
MO~FR (0)
PAL/ MESECAM
MONITOR
AUTO PLAY MEMORY
AUTO PLAY REW
AUTO PLAY SLEEP
AUTO PLAY REPEAT
CLEAR
TIMER REC
TRANS-MIT
DIGITAL SCANNER ON/OFF
FROG
NEXT
TRACK/ V-LOCK (+)
TRACK/ V-LOCK (−)
P12 P11 P10 P03 P02 P01
(NV-J40EE ONLY)
IC1
MN158655VSTC
SEG 6 SEG 5 SEG 4 SEG 3 SEG 2 SEG 1 SEG 0
COM2 COM1 COM0
VLCD3 VLCD2 VLCD1 VDD OSC 1 OSC 2
SEG 7 SEG 8 SEG 9 SEG 10 SEG 11 SEG 12 SEG 13 SEG 14 SEG 15 SEG 16 SEG 17 SEG 18 SEG 19 SEG 20 SEG 21 SEG 22
SEG 23 SEG 24 SEG 25 SEG 26 SEG 27 SEG 28 SEG 29 SEG 30 SEG 31
PC3
RMO.PEO
P42.BZ
P23 P22 P21 P20
XO XI VSS RST P30.IRQ P31.SYNC P32.SBD P33.SBT P00 P01 P02 P03 P10 P11 P12 P13
R2
470K
R3
470K
R4
390K
C8
0.01
C9
0.01
C10
0.1
X1
(3.52MHz)
EF0GC3524
R16
330K
C2
0.1
C1
4V47
D1
SE303ACY
R7
1.2
Q1
2SD1328
R6
560
Q2
MSB709
R5
15K
47K
QR3
DTC144TK
L1
ELT3K017B
X2
VSQ0765

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

REF. NO. 6800 SERIES

3-28. INTERCONNECTION SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
PHOTO TR.(S) C.B.A. (VEP00R11A)
TO FE HEAD
PHOTO TR.(T) C.B.A.
A/C HEAD
POWER C.B.A. (VEP01469H: NV-J11AM/EN) (VEP01469D: NV-J11BA) (VEP01469E: NV-J11BD) (VEP01469F: NV-J40EE)
CAPSTAN MOTOR
MECHANISM CONNECTION C.B.A. (VXA4463)
TO SAFETY TAB SW
TO SOLENOID
TO SENSOR LED
TO MODE SW
INPUT/OUTPUT PACK C.B.A. (VEP03843J:NV-J11AM) (VEP03843D:NV-J11EN/BA) (VEP03843N:NV-J11BD) (VEP03843K:NV-J40EE)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03857D: NV-J11AM/BD.J40EE) (VEP03857K:NV-J11EN/BA)
MAIN C.B.A. (VEP03840U:NV-J11AM/BD) (VEP03840AG:NV-J11EN) (VEP03840X:NV-J11BA.J40EE)
RF CONVERTER UNIT (ENC17988.VEQ1339:NV-J11AM.J40EE) (ENC17905:NV-J11EN) (ENC17982:NV-J11BA) (ENC17987:NV-J11BD)
TV DEMODULATOR PACK C.B.A. (VEP07629D:NV-J11AM/BD) (VEP07629B:NV-J11EN) (VEP07629F:NV-J11BA) (VEP07629G:NV-J40EE)
CYLINDER DRIVE C.B.A. (VEP02375A)
TO DEW SENSOR
CYLINDER UNIT
HEAD AMP C.B.A. (VEP05167E)
TIMER C.B.A. (VEP07637Q:NV-J11AM) (VEP07637H:NV-J11EN) (VEP07637T:NV-J11BA) (VEP07637U:NV-J11BD) (VEP07637R:NV-J40EE)
OPERATION C.B.A. (VEP00R31A)
P1507-1
P1507-2
P1507-3
P1507-4
P1503-1
P1503-2
P1503-3
P1503-4
P1512-1
P1512-2
P1508-1
P1508-2
P1508-3
P1508-4
P1508-5
P1508-6
P1501-1
P1501-2
P1501-3
P1501-4
P1501-5
P1501-6
P6002-1
P6002-2
P6002-3
P6002-4
P6002-5
P6002-6
P4101-1
P4101-2
P4101-3
P4101-4
P4101-5
P4101-6
P1102-1
P1102-2
P1102-3
P1102-4
P1102-5
P1102-6
P1102-7
P1102-8
P1102-9
P1102-10
P1102-11
P1102-12
P1102-13
P1001-1
P1001-2
P1001-3
P1001-4
P1001-5
P1001-6
P1001-7
P1001-8
P1001-9
P1001-10
P1001-11
P1001-12
P1001-13
P006-1
P006-2
P006-3
P006-4
P006-5
P006-6
P006-7
P006-8
P006-9
P006-10
P006-11
P006-12
P006-13
P006-14
P006-15
P2002-1
P2002-2
P2002-3
P2002-4
P2002-5
P2002-6
P2002-7
P2002-8
P2002-9
P2002-10
P2002-11
P2002-12
P2002-13
P2002-14
P2002-15
P1504-1
P1504-2
P1504-3
P1504-4
P1504-5
P1504-6
P1504-7
P1504-8
P1504-9
P1504-10
P1504-11
P1504-12
P1504-13
P5001-1
P5001-2
P5001-3
P5001-4
P5001-5
P5001-6
P5001-7
P5001-8
P5001-9
P5001-10
P5001-11
P5001-12
P5001-13
P7402-1 … P7402-20
P7502-1 … P7502-20
P7401-1 … P7401-16
P7501-5 … P7501-20
PP7503-1
PP7503-2
PP7503-3
PP7503-4
PP7503-5
PP4352-1
PP4352-2
PP4352-3
PP4352-4
PP4352-5
P6501-1
P6501-2
P2001-1
P2001-2
P2001-3
P2001-4
P2001-5
P201-1
P201-2
P201-3
P201-4
P201-5
P202-1 … P202-10
P001-1 … P001-10
1 2 3 4 5 6 7 8
P6002-1 … P6002-8
P3001-5 … P3001-14
P501-1 … P501-10

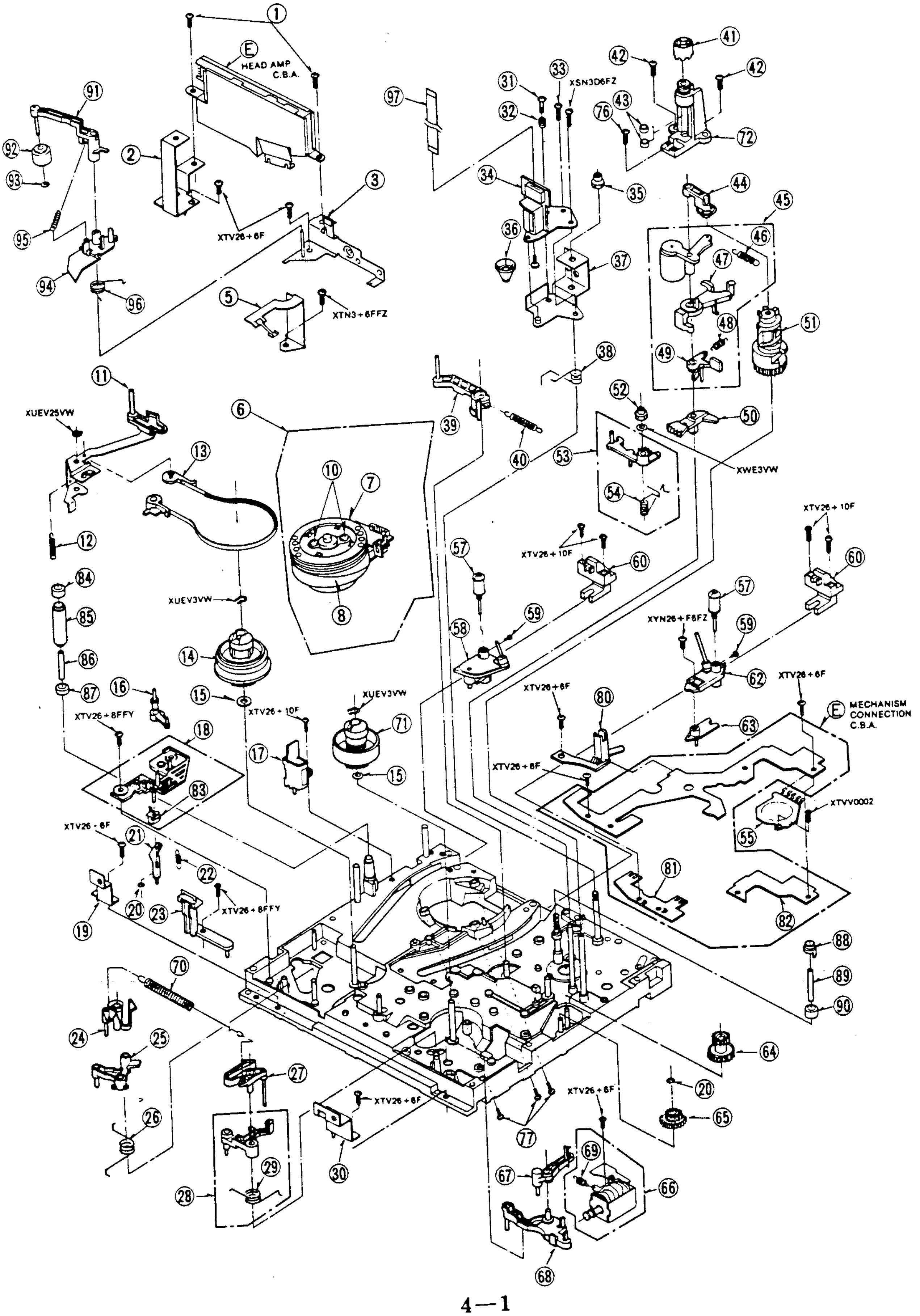
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
REMOTE CONTROLLER Section

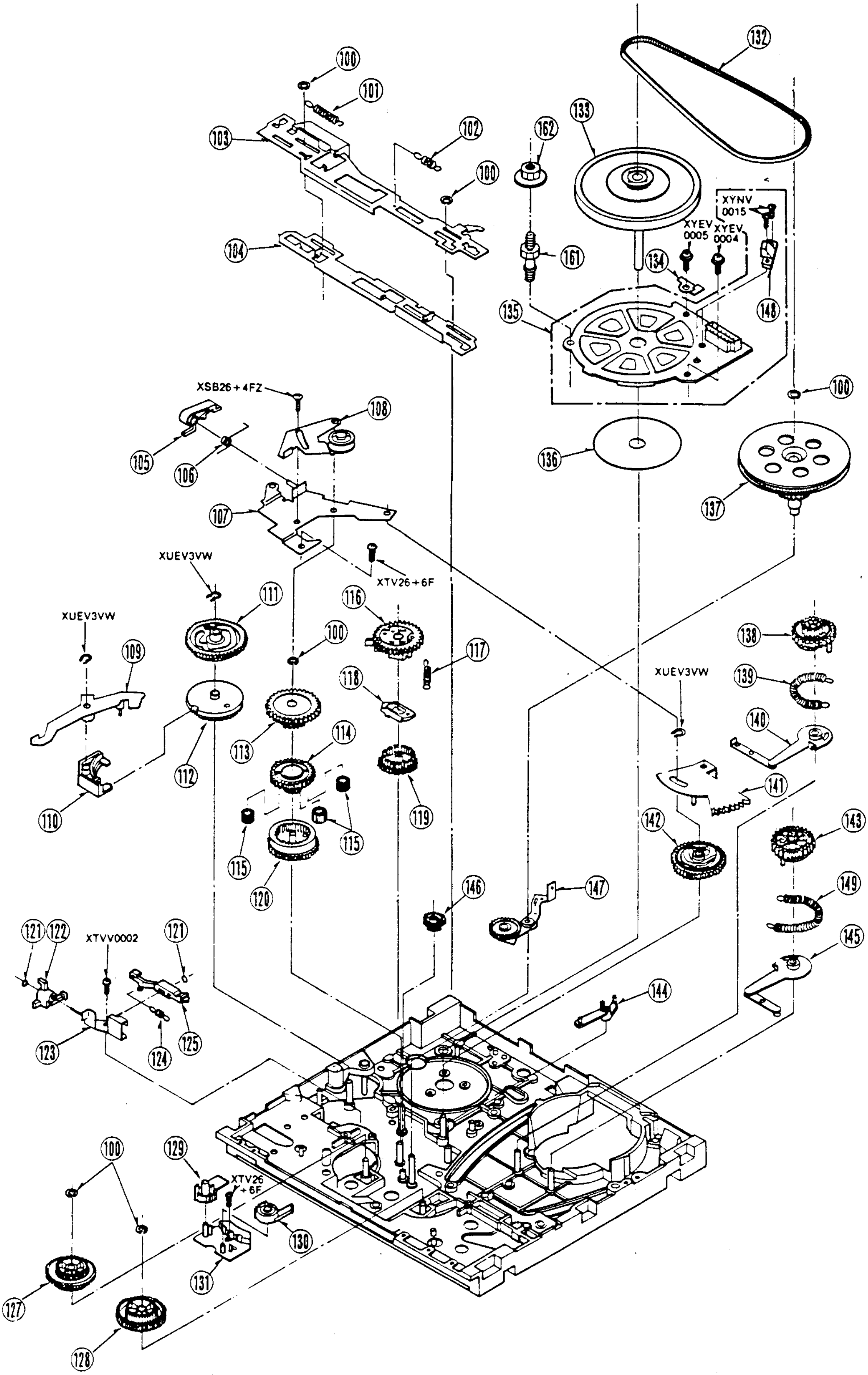
SECTION 4
EXPLODED VIEWS & PARTS LIST

4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)



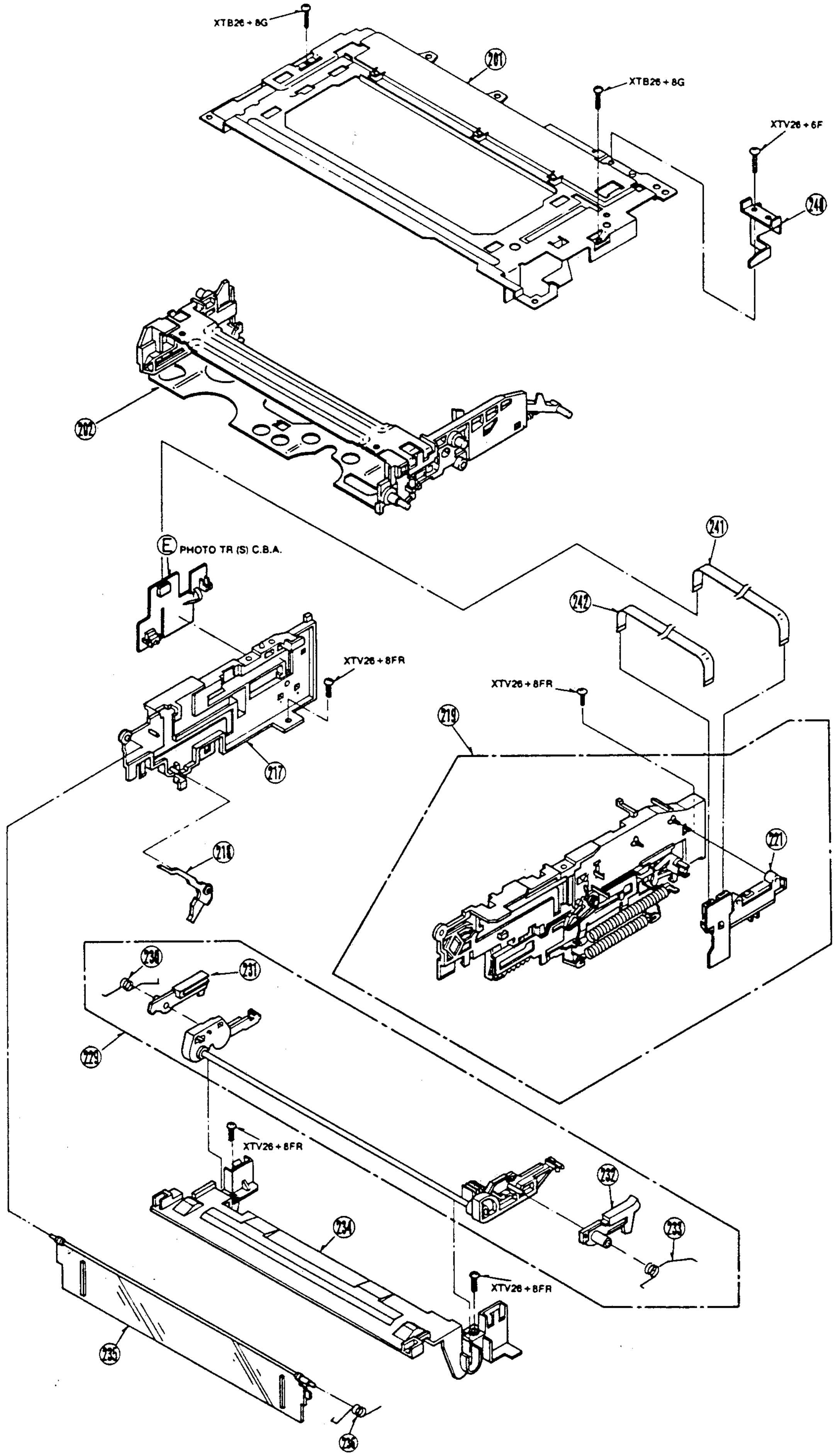
①
Ⓔ HEAD AMP C.B.A.
②
③
XTV26+6F
⑤
XTN3+6FFZ
(91)
(92)
(93)
(95)
(94)
(96)
(97)
(31)
(32)
(33)
XSN3D6FZ
(34)
(35)
(36)
(37)
(38)
(39)
(40)
(41)
(42)
(43)
(76)
(72)
(44)
(45)
(46)
(47)
(48)
(49)
(50)
(51)
(52)
XWE3VW
(53)
(54)
⑪
XUEV25VW
⑫
⑬
⑥
⑩
⑦
⑧
XUEV3VW
⑭
⑮
(84)
(85)
(86)
(87)
⑯
XTV26+8FFY
⑱
(83)
⑰
XTV26+10F
XUEV3VW
(71)
⑮
(57)
XTV26+10F
(60)
(58)
(59)
XTV26+10F
(60)
(57)
XYN26+F6FZ
(59)
(62)
XTV26+6F
(80)
XTV26+6F
(63)
XTV26+6F
Ⓔ MECHANISM CONNECTION C.B.A.
XTVV0002
(55)
(81)
(82)
XTV26-6F
㉑
㉒
⑲
⑳
㉓
XTV26+8FFY
(88)
(89)
(90)
(70)
(24)
(25)
(26)
(27)
(28)
(29)
XTV26+6F
(30)
(64)
(20)
(65)
XTV26+6F
(77)
(67)
(69)
(66)
(68)

❷ CHASSIS PARTS SECTION (2)

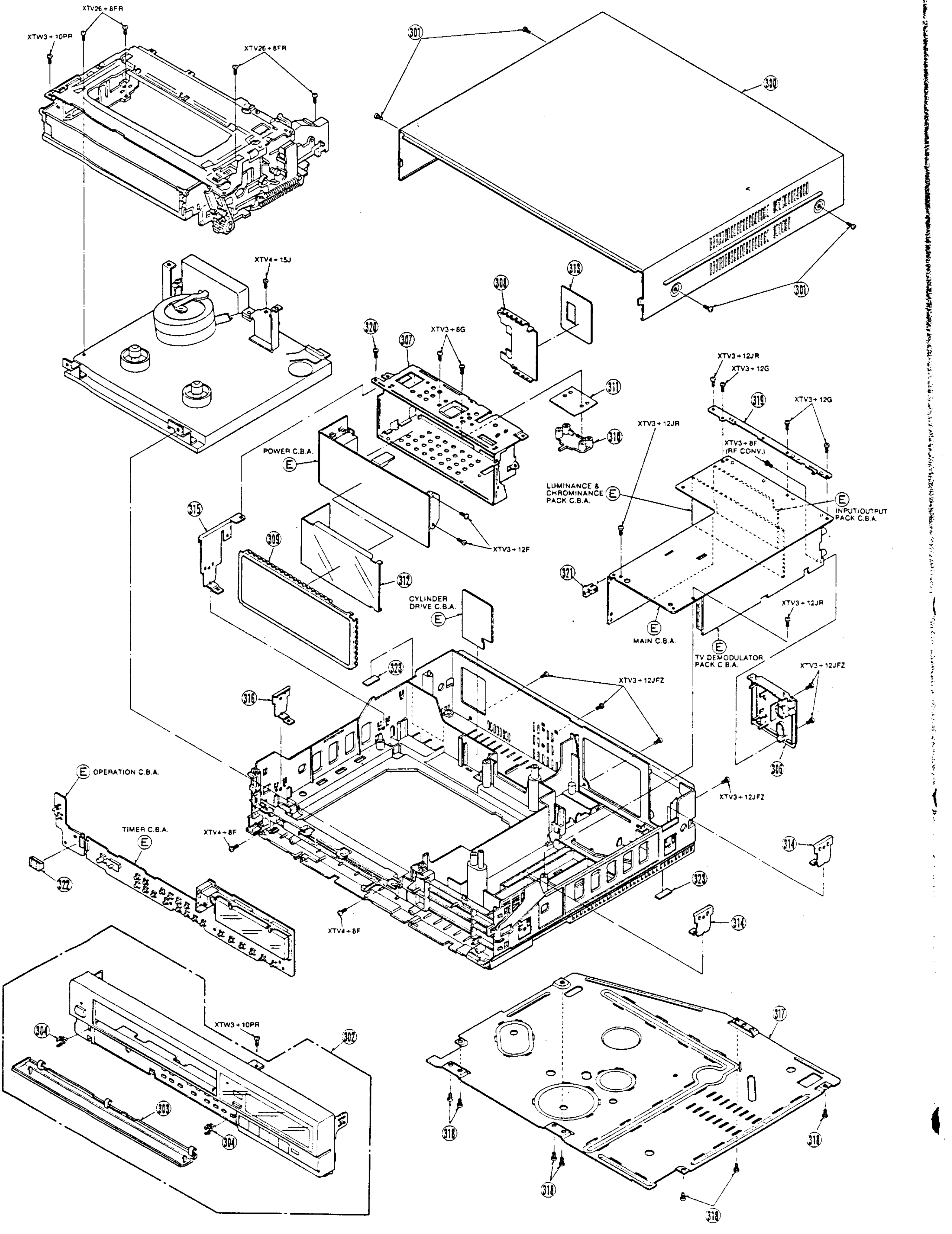


100
101
102
103
100
104
132
133
162
161
XYNV 0015
XYEV 0005
XYEV 0004
134
135
148
100
136
137
XSB26+4FZ
108
105
106
107
XTV26+6F
XUEV3VW
111
116
100
117
XUEV3VW
109
112
110
113
118
114
119
115
115
120
138
139
XUEV3VW
140
141
142
143
149
145
146
147
144
121
122
XTVV0002
121
123
124
125
100
129
XTV26 +6F
130
131
127
128

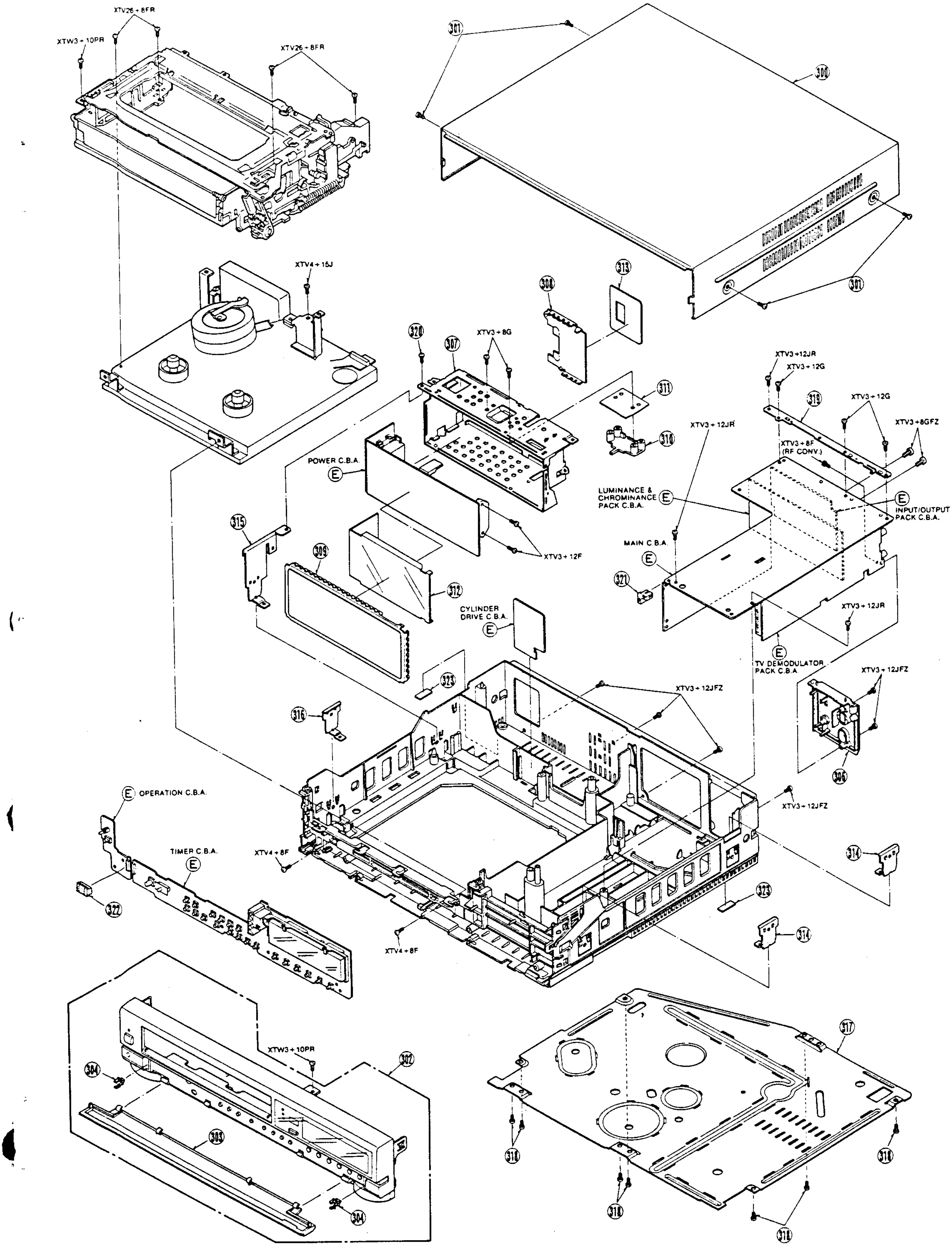
❸ CASSETTE UP MECHANISM SECTION


XTB26 + 8G
201
XTB26 + 8G
XTV26 + 6F
240
202
241
E PHOTO TR (S) C.B.A.
242
XTV26 + 8FR
XTV26 + 8FR
219
217
221
218
230
231
229
XTV26 + 8FR
232
234
233
XTV26 + 8FR
235
236

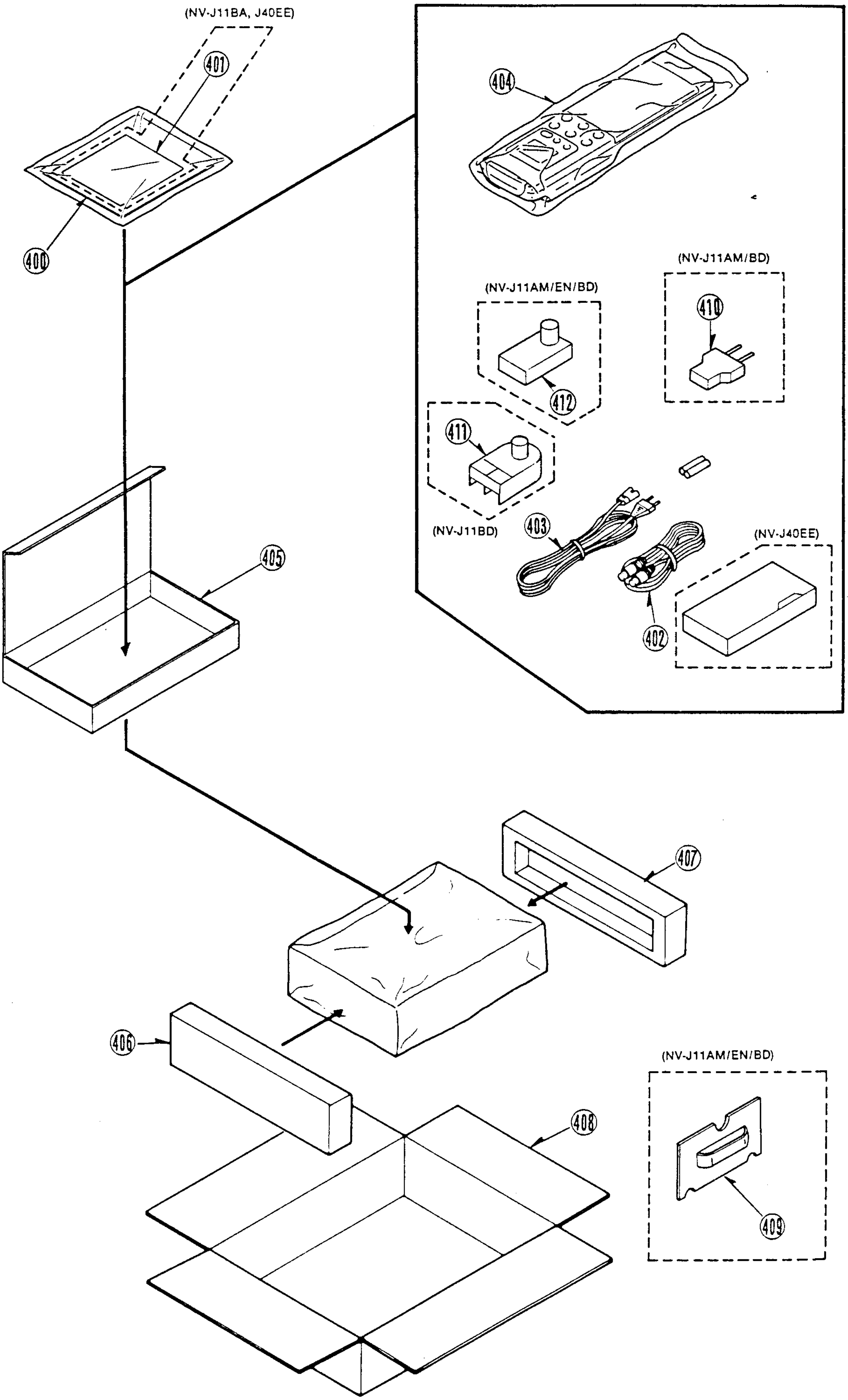
❹ CASING PARTS SECTION (NV-J11AM/EN/BA/BD)


XTV26+8FR
XTW3+10PR
XTV26+8FR
301
300
301
XTV4+15J
313
308
320
307
XTV3+8G
311
310
XTV3+12JR
XTV3+12G
319
XTV3+12G
XTV3+12JR
XTV3+8F
(RF CONV.)
POWER C.B.A.
E
LUMINANCE &
CHROMINANCE
PACK C.B.A.
E
E
INPUT/OUTPUT
PACK C.B.A.
315
309
XTV3+12F
312
321
CYLINDER
DRIVE C.B.A.
E
E
MAIN C.B.A.
E
TV DEMODULATOR
PACK C.B.A.
XTV3+12JR
323
XTV3+12JFZ
XTV3+12JFZ
316
306
E
OPERATION C.B.A.
XTV3+12JFZ
TIMER C.B.A.
E
XTV4+8F
314
322
323
XTV4+8F
314
317
XTW3+10PR
304
302
303
304
318
318
318
318

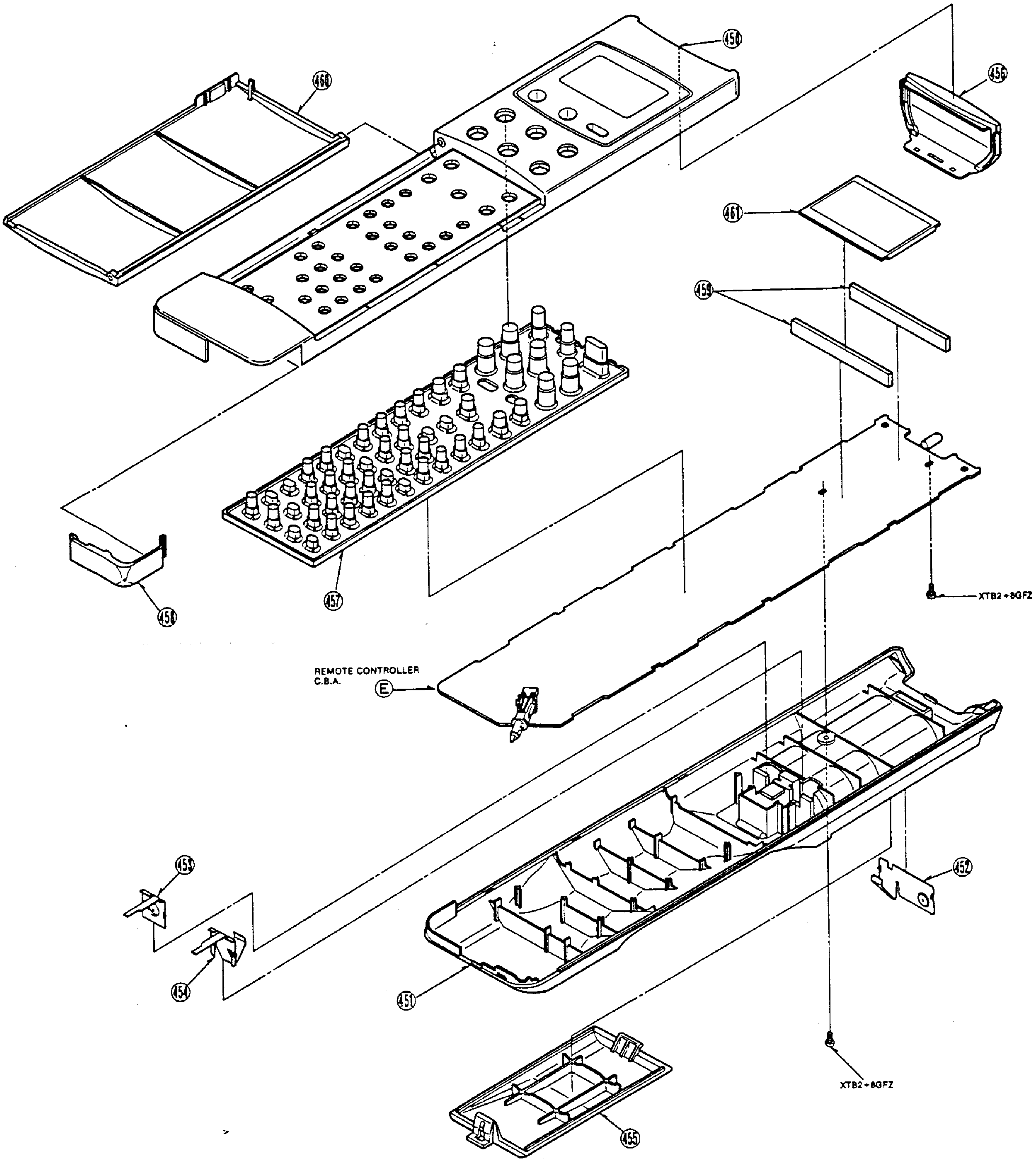
❹ CASING PARTS SECTION (NV-J40EE)


XTV26 + 8FR
XTW3 + 10PR
XTV26 + 8FR
301
300
301
XTV4 + 15J
313
308
320
307
XTV3 + 8G
311
310
XTV3 +12JR
XTV3 + 12G
319
XTV3 + 12G
XTV3 +8GFZ
XTV3 + 12JR
XTV3 + 8F
(RF CONV.)
POWER C.B.A.
E
LUMINANCE &
CHROMINANCE
PACK C.B.A.
E
E
INPUT/OUTPUT
PACK C.B.A.
315
XTV3 + 12F
MAIN C.B.A.
E
309
312
321
XTV3 + 12JR
CYLINDER
DRIVE C.B.A.
E
E
TV DEMODULATOR
PACK C.B.A.
323
XTV3 + 12JFZ
XTV3 + 12JFZ
316
306
E
OPERATION C.B.A.
XTV3 + 12JFZ
TIMER C.B.A.
E
XTV4 + 8F
314
322
323
314
XTV4 + 8F
317
XTW3 + 10PR
302
304
303
318
318
304
318
318

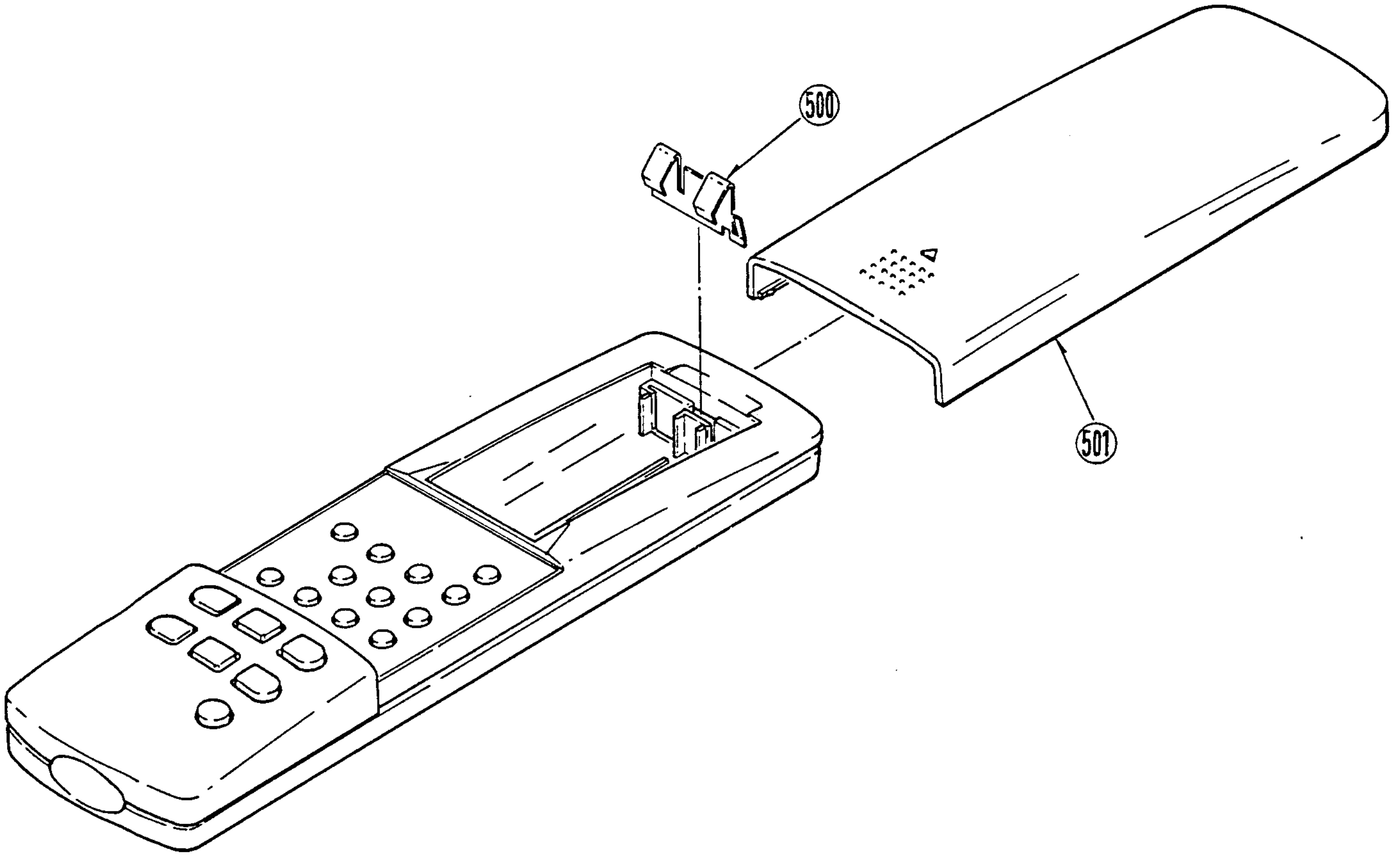
❺ PACKING PARTS SECTION


(NV-J11BA, J40EE)
401
400
404
(NV-J11AM/BD)
(NV-J11AM/EN/BD)
410
412
411
(NV-J11BD)
403
(NV-J40EE)
402
405
407
406
408
(NV-J11AM/EN/BD)
409

❻ REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) UNIT (NV-J11BA, J40EE)


(450)
(460)
(456)
(461)
(459)
(457)
(458)
XTB2+8GFZ
REMOTE CONTROLLER
C.B.A.
Ⓔ
(453)
(452)
(454)
(451)
XTB2+8GFZ
(455)

❼ REMOTE CONTROLLER UNIT (NV-J11AM/EN/BD)



4-2. MECHANICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VHD0141	HEAD AMP SET SCREW	2	
2(1)		VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)		VXA4545	HEAD AMP MOUNT ANGLE (R) UNIT	1	
5(1)		VXS0082	EARTH PLATE UNIT	1	
6(1)		VEG0890	CYLINDER UNIT	1	<!>
7(1)		VEH0532	UPPER CYLINDER UNIT	1	<!>
8(1)		VJR0082	RT TERMINAL	1	
10(1)		VHD0425	UPPER CYLINDER SET SCREW	2	
11(1)		VXL1495	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0267	TENSION BAND UNIT	1	
14(1)		VXR0185	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
16(1)		VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)		VBS0038	FE HEAD	1	
18(1)		VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	2	
21(1)		VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)		VMB1582	TENSION RELEASE SPRING	1	
23(1)		VES0489	SAFETY SW	1	
24(1)		VXZ0259	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0262	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)		VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VED0160	A/C HEAD (1) UNIT	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0110	ADJUST NUT	1	
37(1)		VMA7831	HEAD BASE	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1857	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1858	PRESSURE ROLLER UNIT	1	
46(1)		VMB1941	PIN PRESSURE SPRING	1	
47(1)		VML2232	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0597	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHD0045	M3 NYLON NUT	1	
53(1)		VXL2027	P5 UNIT	1	
54(1)		VMB2718	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
57(1)		VXP0863	ROLLER POST UNIT	2	
58(1)		VXA4106	INCLINED BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
62(1)		VXA3876	INCLINED BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLINED ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0664	CONNECTION GEAR	1	
66(1)		VXA3735	SOLENOID UNIT	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML1849	SOLENOID LEVER	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB2012	MAIN BRAKE SPRING	1	
71(1)		VXR0188	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
76(1)		VHD0374	HOUSING SCREW	1	
77(1)		VHD0342	CYLINDER SCREW	3	
80(1)		VXA3520	LED HOLDER UNIT	1	
81(1)		VMA7829	REINFORCEMENT PLATE (F)	1	
82(1)		VMA8468	REINFORCEMENT PLATE (R)	1	
83(1)		VMB1733	LEAF SPRING	1	
84(1)		VMX1088	SUPPLY UPPER LIMITER	1	
85(1)		VDP1072	SUPPLY ROLLER	1	
86(1)		VMX1581	P1 COLLAR	1	
87(1)		VMX1533	SUPPLY ROLLER LIMITER	1	
88(1)		VMX1544	P4 UPPER LIMITER	1	
89(1)		VMX1568	P4 SLEEVE	1	
90(1)		VMX1534	P4 LOWER LIMITER	1	
91(1)		VXL2086	CLEANER ARM (2) UNIT	1	
92(1)		VXP1269	CLEANER ROLLER UNIT	1	
93(1)		VMX1061	SNAP WASHER A	1	
94(1)		VML2510	CLEANER ARM B	1	
95(1)		VMB2263	CLEANER ARM SPRING A	1	
96(1)		VMB2264	CLEANER ARM SPRING B	1	
97(1)		VWJ0506	FLEXIBLE CADE	1	P4101-P1501(6P)
100(2)		VMX1079	CUT WASHER	6	
101(2)		VMB1583	TAKE UP SOFT BRAKE RELEASE ARM SPRING	1	
102(2)		VMB1560	MAIN LEVER SPRING	1	
103(2)		VXA3509	MAIN LEVER (1) UNIT	1	
104(2)		VMM0215	SUB LEVER	1	
105(2)		VXL2088	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA3516	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0574	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0547	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP1002	TAKE UP REEL GEAR UNIT	1	
128(2)		VXP0981	SUPPLY REEL GEAR UNIT	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP1113	ROTOR UNIT	1	
134(2)		VMA7941	ROTOR STOPPER	1	
135(2)		VEX4097	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP0917	CENTRE PULLEY UNIT	1	
138(2)		VDG0564	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3515	SECTOR GEAR UNIT	1	
142(2)		VDG0448	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML1855	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0546	INTERMEDIATE GEAR	1	
147(2)		VXL1861	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	
149(2)		VMB1746	LOADING SPRING(S)	1	
161(2)		VHD0431	STATOR SPACER SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
162(2)	VHN0102	STATOR NUT	1	
201(3)	VXA4638	TOP PLATE UNIT	1	
202(3)	VXA3840	CASSETTE HOLDER UNIT	1	
217(3)	VMD1890	SIDE PLATE (L)	1	
218(3)	VML1880	OPENER LEVER	1	
219(3)	VXA4468	SIDE PLATE (R) UNIT	1	
221(3)	VXA4469	SLIDE SW UNIT	1	
229(3)	VXP0987	MAIN SHAFT UNIT	1	
230(3)	VMB1836	SUB WIPER SPRING (L)	1	
231(3)	VML1878	SUB WIPER ARM (L)	1	
232(3)	VML1879	SUB WIPER ARM (R)	1	
233(3)	VMB1837	SUB WIPER SPRING (R)	1	
234(3)	VMA6900	CASSETTE GUIDE	1	
235(3)	VKF1741	BLINDER PANEL	1	
236(3)	VMB1258	BLINDER SPRING	1	
240(3)	VMA7224	CASSETTE HOLDER ANGLE	1	
241(3)	VWJ040W270MM	FLEXIBLE CARD	1	P1503-P1507(4P)
242(3)	VWJ0534B	FLEXIBLE CARD	1	P6002-P1508(6P)
300(4)	VGM0625	TOP PANEL	1	
301(4)	VHD0304	TOP PANEL SCREW	4	
302(4)	VYP3834	FRONT PANEL UNIT	1	NV-J11AM
302(4)	VYP3833	FRONT PANEL UNIT	1	NV-J11EN
302(4)	VYP3858	FRONT PANEL UNIT	1	NV-J11BA
302(4)	VYP3835	FRONT PANEL UNIT	1	NV-J11BD
302(4)	VYP3824	FRONT PANEL UNIT	1	NV-J40EE
303(4)	VYF1772	FRONT DOOR UNIT	1	NV-J11AM/BA/BD
303(4)	VYF1773	FRONT DOOR UNIT	1	NV-J11EN
303(4)	VYF1731	FRONT DOOR UNIT	1	NV-J40EE
304(4)	VGQ0550	DOOR LOCK PIECE	2	
306(4)	VJH0617	ANT TERMINAL PLATE	1	NV-J11AM/BA/BD,J40EE
306(4)	VJH0630	ANT TERMINAL PLATE	1	NV-J11EN
307(4)	VXA4453	POWER SHIELD COVER(MAIN)	1	
		UNIT		
308(4)	VSC2351	POWER SHIELD COVER (TOP)	1	NV-J11AM/EN/BA/BD
308(4)	VSC3110	POWER SHIELD COVER (TOP)	1	NV-J40EE
309(4)	VSC3375	POWER SHIELD COVER (BOTTOM)	1	
310(4)	VGQ1377	IC HOLDER	1	
311(4)	VMZ1224	INSULATION SHEET	1	
312(4)	VMZ1854	POWER BARRIER	1	
313(4)	VGH2721	NAME PLATE	1	
314(4)	VMP1037	TOP HOLDER ANGLE (R)	2	
315(4)	VMP1995	TOP HOLDER ANGLE (REAR-L)	1	
316(4)	VMP3302	TOP HOLDER ANGLE (FRONT-L)	1	
317(4)	VKU0309	BOTTOM PLATE	1	
318(4)	VHD0059	BOTTOM PLATE SCREW	7	
319(4)	VMP3141	EARTH ANGLE	1	
320(4)	VHD0141	POWER SCREW	1	
321(4)	VJF0374	MAIN C.B.A. HOLDER	1	
322(4)	VJS3084A005	BRIDGE CONNECTOR	1	
323(4)	VKA0122	FOOT	2	
400(5)	VQT4187	OPERATING INSTRUCTIONS	1	<!> NV-J11AM
		(ENGLISH/CHINESE)		
400(5)	VQT4337	OPERATING INSTRUCTIONS	1	<!> NV-J11AM
		((ARABIC/RUSSIAN)		
400(5)	VQT4188	OPERATING INSTRUCTIONS	1	<!> NV-J11EN
		(ENGLISH/CHINESE)		
400(5)	VQT4338	OPERATING INSTRUCTIONS	1	<!> NV-J11EN
		(HINDI/URDU)		
400(5)	VQT4190	OPERATING INSTRUCTIONS	1	<!> NV-J11BA
		(ENGLISH/AFRIKAANS)		
400(5)	VQT4340	OPERATING INSTRUCTIONS	1	<!> NV-J11BD
		(ENGLISH/CHINESE)		
400(5)	VQT4189	OPERATING INSTRUCTIONS	1	<!> NV-J40EE
		(ENGLISH/GERMAN/RUSSIAN)		
401(5)	VQC1839	PROGRAMME SHEET	1	NV-J11BA,J40EE
402(5)	VJA0376	DIN RF CABLE	1	
403(5)	VJA0449	AC CORD	1	<!> NV-J11AM/EN,J40EE
403(5)	VJA0688	AC CORD	1	NV-J11BA
403(5)	VJA0667	AC CORD	1	NV-J11BD
404(5)	VEQ1342	REMOTE CONTROLLER	1	NV-J11AM/BD
404(5)	VEQ1341	REMOTE CONTROLLER	1	NV-J11EN
404(5)	VEQ1252	REMOTE CONTROLLER	1	NV-J11BA
		(BUILD IN DIGITAL SCANNER)	1	
404(5)	VEQ1256	REMOTE CONTROLLER	1	NV-J40EE
		(BUILD IN DIGITAL SCANNER)	1	
405(5)	VPK0825	ACCESSORY PACKING	1	
406(5)	VPN2356	CUSHION (R)	1	NV-J11AM/EN/BA/BD
406(5)	VPN3103	CUSHION (R)	1	NV-J40EE
407(5)	VPN2357	CUSHION (L)	1	NV-J11AM/EN/BA/BD
407(5)	VPG3104	CUSHION (L)	1	NV-J40EE
408(5)	VPG5992	PACKING	1	NV-J11AM
408(5)	VPG5993	PACKING	1	NV-J11EN
408(5)	VPG5996	PACKING	1	NV-J11BA
408(5)	VPG6229	PACKING	1	NV-J11BD
408(5)	VPG5994	PACKING	1	NV-J40EE
409(5)	VPQ0001	HANDLE	1	NV-J11AM/EN/BD
410(5)	VJP2974	AC PLUG ADAPTOR	1	NV-J11AM
410(5)	VJS1993	AC PLUG ADAPTOR	1	NV-J11BD
411(5)	VFA0021	MATCHING ADAPTOR	1	NV-J11BD
412(5)	VSQ0662	SEPARATION ADAPTOR	1	NV-J11AM/EN/BD
450(6)	VYK3933	TOP COVER UNIT	1	NV-J11BA
450(6)	VYK4096	TOP COVER UNIT	1	NV-J40EE
451(6)	VKM2598	BOTTOM COVER	1	
452(6)	VJR0680	ELECTRODE (COM.)	1	
453(6)	VJR0657	ELECTRODE(+)	1	
454(6)	VJR0658	ELECTRODE(-)	1	
455(6)	VKF1658	BATTERY COVER	1	
456(6)	VKW1449	IR WINDOW	1	
457(6)	VSP0597	RUBBER CONTACT	1	NV-J11BA
457(6)	VSP0615	RUBBER CONTACT	1	NV-J40EE
458(6)	VGQ2399	SENSOR CAP	1	
459(6)	VMT0373T	CONDUCTIVE RUBBER	2	
460(6)	VGP2797	DOOR PANEL	1	
461(6)	VSL0243	LCD	1	
500(7)	VJR0693	ELECTRODE (COM.)	1	
501(7)	VKF1750	SLIDE COVER	1	
		SERVICING FIXTURES		
	VFJ8125H3F	VHS-ALIGNMENT TAPE (PAL)	1	
	VFK0335	RETAINING RING REMOVER	1	
		(3mm/4mm)		
	VFK0387	TENSION POST ADJUSTMENT	1	
		PLATE		
	VFK0191	POST ADJUSTMENT PLATE	1	
	VFK0190	REEL TABLE HEIGHT GAUGE	1	
	VFK0328	H-POSITION ADJ.	1	
		SCREWDRIVER		
	VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
	VFK62	FAN TYPE TENSION GAUGE	1	
	VFK0326	HEX WRENCH SET	1	
	VFK0132	BACK TENSION METER	1	
	VFK0343	CHECK LIGHT	1	
	VFK0344	HEIGHT ADJUSTMENT JIG	1	
	VFK27	HEAD CLEANING STICK	1	
	MOR265	MORLYTONE GREASE	1	
	VFK0680	WHITE GREASE	1	
	VFK0341	UPPER CYLINDER REMOVER	1	

4-3. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4. The P.C.Board units marked width'■'show below the main assembled parts.
5. Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03840AG	MAIN C.B.A.	1	(NLA) NV-J11EN
		VEP03840U	MAIN C.B.A.	1	(NLA) NV-J11AM/BD
		VEP03840X	MAIN C.B.A.	1	(NLA) NV-J11BA,J40EE
		VEP03843D	INPUT/OUTPUT C.B.A.	1	(NLA) NV-J11EN/BA
		VEP03843J	INPUT/OUTPUT C.B.A.	1	(NLA) NV-J11AM
		VEP03843K	INPUT/OUTPUT C.B.A.	1	(NLA) NV-J40EE
		VEP03843N	INPUT/OUTPUT C.B.A.	1	(NLA) NV-J11BD
		VEP03857D	LUMINANCE & CHROMINANCE	1	(NLA)
			C.B.A.		NV-J11AM/BD,J40EE
		VEP03857K	LUMINANCE & CHROMINANCE	1	(NLA) NV-J11EN/BA
			C.B.A.		
		VEP02375A	CYLINDER DRIVE C.B.A.	1	(NLA)
		VEP05167E	HEAD AMP C.B.A.	1	(NLA)
		VEP07637H	TIMER C.B.A.	1	(NLA) NV-J11EN
					INCLUDING THE IR
					RECEIVER UNIT
					(VEK5206).
		VEP07637Q	TIMER C.B.A.	1	(NLA) NV-J11AM
					INCLUDING THE IR
					RECEIVER UNIT
					(VEK5206).
		VEP07637R	TIMER C.B.A.	1	(NLA) NV-J40EE
					INCLUDING THE IR
					RECEIVER UNIT
					(VEK5206).
		VEP07637T	TIMER C.B.A.	1	(NLA) NV-J11BA
					INCLUDING THE IR
					RECEIVER UNIT
					(VEK5206).
		VEP07637U	TIMER C.B.A.	1	(NLA) NV-J11BD
					INCLUDING THE IR
					RECEIVER UNIT
					(VEK5206).
		VEK5206	IR RECERIVER UNIT	1	(NLA)
					INCLUDED IN TIMER
					C.B.A.
					(VEP07637H/Q/R/T/U)
		VEP00R31A	OPERATION C.B.A.	1	(NLA)
		VEP07629B	TV DEMODULATOR C.B.A.	1	(NLA) NV-J11EN
		VEP07629D	TV DEMODULATOR C.B.A.	1	(NLA) NV-J11AM/BD
		VEP07629F	TV DEMODULATOR C.B.A.	1	(NLA) NV-J11BA
		VEP07629G	TV DEMODULATOR C.B.A.	1	(NLA) NV-J40EE
		VEP01469D	POWER C.B.A.	1	(NLA)⟨!⟩ NV-J11BA
		VEP01469E	POWER C.B.A.	1	(NLA)⟨!⟩ NV-J11BD
		VEP01469F	POWER C.B.A.	1	(NLA)⟨!⟩ NV-J40EE
		VEP01469H	POWER C.B.A.	1	(NLA)⟨!⟩ NV-J11AM/E
		VEP00R11A	PHOTO TR. (S) C.B.A.	1	(NLA)
		---------	PHOTO TR. (T) C.B.A.	1	(NLA)
		VXA4463	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEP66178H	REMOTE CONTROL C.B.A.	1	(NLA) NV-J11BA,J40E
	■	ENC17905	RF CONVERTER		(NLA)⟨!⟩ NV-J11EN
	■	ENC17982	RF CONVERTER		(NLA)⟨!⟩ NV-J11BA
	■	ENC17987	RF CONVERTER		(NLA)⟨!⟩ NV-J11BD
	■	ENC17988	RF CONVERTER		(NLA)⟨!⟩
					NV-J11AM,J40EE
	■	ENV77880H3	TUNER		(NLA)⟨!⟩ NV-J11EN
	■	ENV79827H3	TUNER		(NLA)⟨!⟩ NV-J11BA
	■	ENV79828H3	TUNER		(NLA)⟨!⟩
					NV-J11AM/BD,J40EE

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03840AG	MAIN C.B.A.		(NLA) NV-J11EN
			CAPACITORS		
C1001		ECEA1EK470	E.CAPACITOR 25V 47U	1	
C1002		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C1003		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2001		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2002		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2003		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C2004		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2005		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2006		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2007		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2008		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2009		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2011		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2012		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2013		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2014		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2015		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C2016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2017		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2018		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2019		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C2020		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2021		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2022,23		ECEA0JK220	E.CAPACITOR 6.3V 22U	2	
C2024		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2027		ECQB1H103KZ	P.CAPACITOR 50V 0.01U	1	
C2028		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2033		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2034,35		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
C2036		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2038		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2101		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C2211-13		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2214		ECA0JM221	E.CAPACITOR	1	
C2215-19		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	5	
C2221		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2222		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2301		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2302		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2323		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C3001		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002		ECA0JM102	E.CAPACITOR	1	
C3003-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3203		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3204		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3205		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3206		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3207		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3208		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3209		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3211		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3212		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3213		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3214		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3217		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4014		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4015		ECEA16M10R	E.CAPACITOR 16V 10.U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4018		ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C4029		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4033		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4036		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C4038		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C6001		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6002		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6005		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6006,07		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C6101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6102		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6103		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6104		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6105		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6106		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6201		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C6501		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6504		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6601		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C6602		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6603		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6604		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6605		ECEA1EU470	E.CAPACITOR 25V 47U	1	
C6606,07		ECA1CM102	E.CAPACITOR	2	
C6608		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7401		ECA0JM221	E.CAPACITOR	1	
C7402		EECS5R5T224N	CAPACITOR	1	
C7403		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7404		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7406		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7407		ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C7408		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7409		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7410,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7422		ECUM1H272KBN	C.CAPACITOR 50V 2700P	1	
C7424		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7425		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7426		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7427,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7441		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
			DIODES		
D1001,02		1SS254	DIODE	2	
D2001		1SS254	DIODE	1	
D2005		1SS254	DIODE	1	
D2008		MA4051	DIODE	1	
D2303,04		1SS254	DIODE	2	
D3001		1SS254	DIODE	1	
D4003,04		1SS254	DIODE	2	
D6003		MA723VT	DIODE	1	(VT)
D6005		1SS254	DIODE	1	
D6007		1SS254	DIODE	1	
D6601-05		1SS254	DIODE	5	
D6606		MA151WA	DIODE	1	
D6607		AK04	DIODE	1	
D6608		ERA15-01	DIODE	1	
D6609		1SS254	DIODE	1	
D7401,02		MA723VT	DIODE	2	(VT)
			INTEGRATED CIRCUITS		
IC2201		XRA6435S	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC2301	UPC358G2	IC	1	
IC4001	XRA7766AS	IC	1	
IC6001	MN6743VRDD	IC	1	
IC6002	UPC358G2	IC	1	
IC6502	PST590D-T	IC	1	
IC6601	SI-3090CA	IC	1	
		COILS		
L2001	ELESP102KA	COIL 1MH	1	
L2002	ELESQ101KA	COIL 100UH	1	
L3001	ELESQ101KA	COIL 100UH	1	
L3202	ELESP6R8KA	COIL 6.8UH	1	
L3203	ELESQ101KA	COIL 100UH	1	
L3204	ELESP120KA	COIL 12UH	1	
L3205	ELESQ5R6KA	COIL 5.6UH	1	
L3206	ELESQ101KA	COIL 100UH	1	
L3207	ELESQ3R3KA	COIL 3.3UH	1	
L4001	VLQEL07F153K	COIL	1	
L4002	ELESP471KA	COIL 470UH	1	
L6001	VLP0074	COIL	1	
L6101	ELESQ101KA	COIL 100UH	1	
L7401	ELESQ1R0KA	COIL 1UH	1	
L7402	ELESQ101KA	COIL 100UH	1	
L7403	VLP0085	FILTER	1	
L7404	ELESQ1R0KA	COIL 1UH	1	
L7405	ELESQ101KA	COIL 100UH	1	
		CONNECTORS		
P1001	VJS1661	CONNECTOR (FEMALE)	1	
P2001	VJS2328	CONNECTOR (FEMALE)	1	
P2002	VJS1663	CONNECTOR (FEMALE)	1	
P3001	VJS1658	CONNECTOR (FEMALE)	1	
P4101	VJS2331	CONNECTOR (FEMALE)	1	
P6001	VJS1661	CONNECTOR (FEMALE)	1	
P6002	VJS3147	CONNECTOR (FEMALE)	1	
P6601	VJP1242T	CONNECTOR (MALE) 2P	1	
P7401	VJS1664	CONNECTOR (FEMALE)	1	
P7402	VJS1668	CONNECTOR (FEMALE)	1	
PP3001	VJP3044G009W	CONNECTOR (MALE)	1	
PP3002	VJP3044G012W	CONNECTOR (MALE)	1	
PP3003	VJP3044G006W	CONNECTOR (MALE)	1	
PP3901	VJP3042A011W	CONNECTOR (MALE)	1	
PP3902	VJP3042A012W	CONNECTOR (MALE)	1	
PP7401-03	VJP3043A005W	CONNECTOR (MALE)	3	
PP7404	VJP3043A006W	CONNECTOR (MALE)	1	
PP7405	VJP3043A004W	CONNECTOR (MALE)	1	
		TRANSISTORS		
Q2002	2SD1915	TRANSISTOR	1	
Q3001	MSB709	TRANSISTOR	1	
Q3201,02	MSC2295	TRANSISTOR	2	
Q3203	MSD601	TRANSISTOR	1	
Q3204	2SB970-R	TRANSISTOR CHIP	1	(R,S)
Q4001	MSD602-R	TRANSISTOR	1	
Q6101	MSC2295	TRANSISTOR	1	
Q6201,02	MSB710-R	TRANSISTOR	2	
Q6203	2SB1321-R	TRANSISTOR	1	
Q6601,02	MSD601	TRANSISTOR	2	
Q6603-05	2SD1994-S	TRANSISTOR	3	(S)
Q6606	MSD602	TRANSISTOR	1	
Q6607	MSD601	TRANSISTOR	1	
		COMBINATION PARTS		
QR1001	MRN1402	TRANSISTOR	1	
QR2001	MRN1404	TRANSISTOR	1	
QR2006	MRN1404	TRANSISTOR	1	
QR3001	MRN2402	TRANSISTOR	1	
QR3007	MRN1403	TRANSISTOR	1	
QR4001	MRN1404	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR4102	MRN1404	TRANSISTOR	1	
QR4103	DTC363FK	TRANSISTOR-RESISTOR	1	
QR6006	UN2216	TRANSISTOR-RESISTOR	1	
QR6201,02	MRN1404	TRANSISTOR	2	
QR6601	UN2119	TRANSISTOR-RESISTOR	1	
QR6602	MRN2404	TRANSISTOR	1	
QR6603-05	MRN1403	TRANSISTOR	3	
QR6606,07	MRN2404	TRANSISTOR	2	
		RESISTORS		
R2003	ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2004	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2005	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2006-08	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2009,10	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2011	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2012,13	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R2021,22	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2023	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2024	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2026	ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R2027	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2030	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2032	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2033	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2034	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2102	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R2103,04	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2108	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2215	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2217	ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R2218	ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R2219	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2220-22	ERDS2TJ330	C.RESISTOR 1/4W 33	3	
R2223	ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R2224	ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2301,02	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2303	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2307	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2312	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3002	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3003	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3004	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3012	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3013	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3014	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3015	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3016	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3201,02	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3203	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3204,05	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3207,08	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3211	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3212	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3213	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3215	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3216	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3217	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3223	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3224	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4002	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4003	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4004	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4006	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4007	ERJ6GMYG221	M.RESISTOR CH 1/10W 220	1	
R4008	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4010	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4011	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4012	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013	ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014	ERJ6GMYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4015	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4016	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017	ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019		ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4038		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4042		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4044		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4049		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4053		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4101		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4102		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4103		ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R4104		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4106		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6003,04		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6005		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6006,07		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6008-11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6012-15		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	4	
R6016,17		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6018		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6019		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6022		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6023		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6024,25		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6026,27		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R6032		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6036		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6037		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6038		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6039		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6052		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6053		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6054		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6056,57		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6061		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6062		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6063		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6064		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6065		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6066		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6103,04		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6201		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6202		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6203		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6204		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6205		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6502		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6601		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6602		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6605		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6606		ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6607		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6608		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6609		ERG3SJ220	M.RESISTOR 3W 22	1	
R6610		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6611		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6612		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6613		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6614		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6615		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6616		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6617		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6618		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6619		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R6620		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6621		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6622		ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6623		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7402		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
			TRANSFORMERS		
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR2001		EVNDXAA00B54	V.RESISTOR 50K	1	
VR3012		EVNDXAA00B52	V.RESISTOR 500	1	
VR4002		EVNDXAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X6101		VSX0383	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VWJ0532B	FLAT CARD (CABLE)	1	
		VWJ160W170BB	FLAT CARD (CABLE)	1	
		VWJ200W170BB	FLAT CARD (CABLE)	1	
		VJF0974	FLAT CARD CRIP	1	
		VWJ0528B	FLAT CARD (CABLE)	1	(P1001-P1101)
		VWJ0529A	FLAT CARD (CABLE)	1	(P2001-P201)
		VWJ0530B	FLAT CARD (CABLE)	1	(P2002-P006)
		VWJ0533A	FLAT CARD (CABLE)	1	(P6001-P1504)
	■	VEP03840U	MAIN C.B.A.		(NLA) NV-J11AM/BD
			CAPACITORS		
C1001		ECEA1EK470	E.CAPACITOR 25V 47U	1	
C1002		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C1003		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2001		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2002		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2003		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C2004		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2005		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2006		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2007		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2008		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2009		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2011		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2012		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2013		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2014		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2015		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C2016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2017		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2018		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2019		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C2020		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2021		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2022,23		ECEA0JK220	E.CAPACITOR 6.3V 22U	2	
C2024		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2027		ECQB1H103KZ	P.CAPACITOR 50V 0.01U	1	
C2028		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2033		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2034,35		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
C2036		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2038		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2101		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C2211-13		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2214		ECA0JM221	E.CAPACITOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2215-19		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	5	
C2221		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2222		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2301		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2302		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2323		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C3001		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002		ECA0JM102	E.CAPACITOR	1	
C3003-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3203		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3204		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3205		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3206		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3207		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3208		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3209		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3211		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3212		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3213		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3214		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3217		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4014		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4015		ECEA16M10R	E.CAPACITOR 16V 10.U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4018		ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C4029		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4033		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4036		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C4038		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C6001		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6002		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6005		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6006,07		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C6101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6102		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6103		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6104		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6105		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6106		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6201		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C6501		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6504		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6601		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C6602		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6603		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6604		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6605		ECEA1EU470	E.CAPACITOR 25V 47U	1	
C6606,07		ECA1CM102	E.CAPACITOR	2	
C6608		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7401		ECA0JM221	E.CAPACITOR	1	
C7402		EECS5R5T224N	CAPACITOR	1	
C7403		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7404		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7406		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7407		ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C7408		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7409		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7410,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7422		ECUM1H272KBN	C.CAPACITOR 50V 2700P	1	
C7424		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7425		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7426		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7427,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7441		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
			DIODES		
D1001,02		1SS254	DIODE	2	
D2001		1SS254	DIODE	1	
D2005		1SS254	DIODE	1	
D2008		MA4051	DIODE	1	
D2104		MA151WA	DIODE	1	
D2303,04		1SS254	DIODE	2	
D3001		1SS254	DIODE	1	
D4003,04		1SS254	DIODE	2	
D6003		MA723VT	DIODE	1	(VT)
D6005		1SS254	DIODE	1	
D6007		1SS254	DIODE	1	
D6601-05		1SS254	DIODE	5	
D6606		MA151WA	DIODE	1	
D6607		AK04	DIODE	1	
D6608		ERA15-01	DIODE	1	
D6609		1SS254	DIODE	1	
D7401,02		MA723VT	DIODE	2	(VT)
			INTEGRATED CIRCUITS		
IC2201		XRA6435S	IC	1	
IC2301		UPC358G2	IC	1	
IC4001		XRA7766AS	IC	1	
IC6001		MN6743VRDD	IC	1	
IC6002		UPC358G2	IC	1	
IC6502		PST590D-T	IC	1	
IC6601		SI-3090CA	IC	1	
			COILS		
L2001		ELESP102KA	COIL 1MH	1	
L2002		ELESQ101KA	COIL 100UH	1	
L3001		ELESQ101KA	COIL 100UH	1	
L3202		ELESP6R8KA	COIL 6.8UH	1	
L3203		ELESQ101KA	COIL 100UH	1	
L3204		ELESP120KA	COIL 12UH	1	
L3205		ELESQ5R6KA	COIL 5.6UH	1	
L3206		ELESQ101KA	COIL 100UH	1	
L3207		ELESQ3R3KA	COIL 3.3UH	1	
L4001		VLQEL07F153K	COIL	1	
L4002		ELESP471KA	COIL 470UH	1	
L6001		VLP0074	COIL	1	
L6101		ELESQ101KA	COIL 100UH	1	
L7401		ELESQ1R0KA	COIL 1UH	1	
L7402		ELESQ101KA	COIL 100UH	1	
L7403		VLP0085	FILTER	1	
L7404		ELESQ1R0KA	COIL 1UH	1	
L7405		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
P1001		VJS1661	CONNECTOR (FEMALE)	1	
P2001		VJS2328	CONNECTOR (FEMALE)	1	
P2002		VJS1663	CONNECTOR (FEMALE)	1	
P3001		VJS1658	CONNECTOR (FEMALE)	1	
P4101		VJS2331	CONNECTOR (FEMALE)	1	
P6001		VJS1661	CONNECTOR (FEMALE)	1	
P6002		VJS3147	CONNECTOR (FEMALE)	1	
P6601		VJP1242T	CONNECTOR (MALE) 2P	1	
P7401		VJS1664	CONNECTOR (FEMALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P7402		VJS1668	CONNECTOR (FEMALE)	1	
PP3001		VJP3044G009W	CONNECTOR (MALE)	1	
PP3002		VJP3044G012W	CONNECTOR (MALE)	1	
PP3003		VJP3044G006W	CONNECTOR (MALE)	1	
PP3901		VJP3042A011W	CONNECTOR (MALE)	1	
PP3902		VJP3042A012W	CONNECTOR (MALE)	1	
PP7401-03		VJP3043A005W	CONNECTOR (MALE)	3	
PP7404,05		VJP3043A006W	CONNECTOR (MALE)	2	
			TRANSISTORS		
Q2001		MSB709	TRANSISTOR	1	
Q2002		2SD1915	TRANSISTOR	1	
Q2101		MSB709	TRANSISTOR	1	
Q3001		MSB709	TRANSISTOR	1	
Q3201,02		MSC2295	TRANSISTOR	2	
Q3203		MSD601	TRANSISTOR	1	
Q3204		2SB970-R	TRANSISTOR CHIP	1	(R,S)
Q4001		MSD602-R	TRANSISTOR	1	
Q6101		MSC2295	TRANSISTOR	1	
Q6202		MSB710-R	TRANSISTOR	1	
Q6203		2SB1321-R	TRANSISTOR	1	
Q6601,02		MSD601	TRANSISTOR	2	
Q6603-05		2SD1994-S	TRANSISTOR	3	(S)
Q6606		MSD602	TRANSISTOR	1	
Q6607		MSD601	TRANSISTOR	1	
			COMBINATION PARTS		
QR1001		MRN1402	TRANSISTOR	1	
QR2001		MRN1404	TRANSISTOR	1	
QR2006		MRN1404	TRANSISTOR	1	
QR2101		MRN1407	TRANSISTOR	1	
QR2102		MRN1402	TRANSISTOR	1	
QR2103		MRN1404	TRANSISTOR	1	
QR3001		MRN2402	TRANSISTOR	1	
QR3007		MRN1403	TRANSISTOR	1	
QR4001		MRN1404	TRANSISTOR	1	
QR4102		MRN1404	TRANSISTOR	1	
QR4103		DTC363EK	TRANSISTOR-RESISTOR	1	
QR6006		UN2216	TRANSISTOR-RESISTOR	1	
QR6202		MRN1404	TRANSISTOR	1	
QR6601		UN2119	TRANSISTOR-RESISTOR	1	
QR6602		MRN2404	TRANSISTOR	1	
QR6603-05		MRN1403	TRANSISTOR	3	
QR6606,07		MRN2404	TRANSISTOR	2	
			RESISTORS		
R2001,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2003		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2004		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2005		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2006-08		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2009,10		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2011		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2012,13		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R2021,22		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2023		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2024		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2026		ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R2027		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2030		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2032		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2033		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2034		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2102		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R2103,04		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2106		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2107		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2108		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2215		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2217		ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R2218		ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R2219		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2220-22		ERDS2TJ330	C.RESISTOR 1/4W 33	3	
R2223		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R2224		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2301,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2303		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2307		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2312		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3002		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3003		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3004		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3012		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3013		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3014		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3015		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3201,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3203		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3204,05		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3207,08		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3211		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3212		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3213		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3215		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3216		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3217		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3223		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3224		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4002		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4003		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4004		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4006		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4007		ERJ6GMYG221	M.RESISTOR CH 1/10W 220	1	
R4008		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4010		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4011		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4012		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014		ERJ6GMYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4015		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4016		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019		ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4038		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4042		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4044		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4049		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4053		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4101		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4102		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4103		ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R4104		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4106		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6003,04		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6005		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6006,07		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6008-11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6012-15		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	4	
R6016,17		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6018		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6019		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6022		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6023		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6024,25		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6026,27		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6032		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6036		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6037		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6038		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6039		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6052		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6053		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6054		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6056,57		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6061		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6062		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6063		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6064		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6065		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6066		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6103,04		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6201		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6204		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6205		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6502		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6601		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6602		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6605		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6606		ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6607		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6608		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6609		ERG3SJ220	M.RESISTOR 3W 22	1	
R6610		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6611		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6612		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6613		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6614		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6615		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6616		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6617		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6618		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6619		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R6620		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6621		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6622		ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R6623		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7402		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
			TRANSFORMERS		
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR2001		EVNDXAA00B54	V.RESISTOR 50K	1	
VR3012		EVNDXAA00B52	V.RESISTOR 500	1	
VR4002		EVNDXAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X6101		VSX0383	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VWJ0532B	FLAT CARD (CALBLE)	1	
		VWJ160W170BB	FLAT CARD (CALBLE)	1	
		VWJ200W170BB	FLAT CARD (CALBLE)	1	
		VJF0974	FLAT CARD CRIP	1	
		VWJ0528B	FLAT CARD (CALBLE)	1	(P1001-P1101)
		VWJ0529A	FLAT CARD (CALBLE)	1	(P2001-P201)
		VWJ0530B	FLAT CARD (CALBLE)	1	(P2002-P006)
		VWJ0533A	FLAT CARD (CALBLE)	1	(P6001-P1504)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03840X	MAIN C.B.A.		(NLA) NV-J11BA,J40E
			CAPACITORS		
C1001		ECEA1EK470	E.CAPACITOR 25V 47U	1	
C1002		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C1003		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2001		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2002		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2003		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C2004		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2005		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2006		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C2007		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2008		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2009		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2011		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2012		ECQB1H223KZ	P.CAPACITOR 50V 0.022U	1	
C2013		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2014		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2015		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C2016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2017		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2018		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2019		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C2020		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2021		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2022,23		ECEA0JK220	E.CAPACITOR 6.3V 22U	2	
C2024		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2027		ECQB1H103KZ	P.CAPACITOR 50V 0.01U	1	
C2028		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2033		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2034,35		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
C2036		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2038		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2101		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C2211-13		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2214		ECA0JM221	E.CAPACITOR	1	
C2215-19		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	5	
C2221		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C2222		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2301		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2302		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C2323		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C3001		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002		ECA0JM102	E.CAPACITOR	1	
C3003-06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3203		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3204		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3205		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3206		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3207		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3208		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3209		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3211		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3212		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3213		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3214		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3217		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4014		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4015		ECEA16M10R	E.CAPACITOR 16V 10.U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA1OM22	E.CAPACITOR 10V 22U	1	
C4018		ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C4029		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4033		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4036		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C4038		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C6001		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6002		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6005		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6006,07		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C6101		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6102		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6103		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6104		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6105		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6106		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C6201		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C6501		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6504		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6601		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C6602		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6603		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6604		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C6605		ECEA1EU470	E.CAPACITOR 25V 47U	1	
C6606,07		ECA1CM102	E.CAPACITOR	2	
C6608		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7401		ECA0JM221	E.CAPACITOR	1	
C7402		EECS5R5T224N	CAPACITOR	1	
C7403		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7404		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7406		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7407		ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C7408		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7409		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7410,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7421		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7422		ECUM1H272KBN	C.CAPACITOR 50V 2700P	1	
C7424		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7425		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7426		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7427,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7441		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
			DIODES		
D1001,02		1SS254	DIODE	2	
D2001		1SS254	DIODE	1	
D2005		1SS254	DIODE	1	
D2008		MA4051	DIODE	1	
D2104		MA151WA	DIODE	1	
D2303,04		1SS254	DIODE	2	
D3001		1SS254	DIODE	1	
D4003,04		1SS254	DIODE	2	
D6003		MA723VT	DIODE	1	(VT)
D6005		1SS254	DIODE	1	
D6007		1SS254	DIODE	1	
D6601-05		1SS254	DIODE	5	
D6606		MA151WA	DIODE	1	
D6607		AK04	DIODE	1	
D6608		ERA15-01	DIODE	1	
D6609		1SS254	DIODE	1	
D7401,02		MA723VT	DIODE	2	(VT)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			INTEGRATED CIRCUITS		
IC2201		XRA6435S	IC	1	
IC2301		UPC358G2	IC	1	
IC4001		XRA7766AS	IC	1	
IC6001		MN6743VRDD	IC	1	
IC6002		UPC358G2	IC	1	
IC6502		PST590D-T	IC	1	
IC6601		SI-3090CA	IC	1	
			COILS		
L2001		ELESP102KA	COIL 1MH	1	
L2002		ELESQ101KA	COIL 100UH	1	
L3001		ELESQ101KA	COIL 100UH	1	
L3202		ELESP6R8KA	COIL 6.8UH	1	
L3203		ELESQ101KA	COIL 100UH	1	
L3204		ELESP120KA	COIL 12UH	1	
L3205		ELESQ5R6KA	COIL 5.6UH	1	
L3206		ELESQ101KA	COIL 100UH	1	
L3207		ELESQ3R3KA	COIL 3.3UH	1	
L4001		VLQEL07F153K	COIL	1	
L4002		ELESP471KA	COIL 470UH	1	
L6001		VLP0074	COIL	1	
L6101		ELESQ101KA	COIL 100UH	1	
L7401		ELESQ1R0KA	COIL 1UH	1	
L7402		ELESQ101KA	COIL 100UH	1	
L7403		VLP0085	FILTER	1	
L7404		ELESQ1R0KA	COIL 1UH	1	
L7405		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
P1001		VJS1661	CONNECTOR (FEMALE)	1	
P2001		VJS2328	CONNECTOR (FEMALE)	1	
P2002		VJS1663	CONNECTOR (FEMALE)	1	
P3001		VJS1658	CONNECTOR (FEMALE)	1	
P4101		VJS2331	CONNECTOR (FEMALE)	1	
P6001		VJS1661	CONNECTOR (FEMALE)	1	
P6002		VJS3147	CONNECTOR (FEMALE)	1	
P6601		VJP1242T	CONNECTOR (MALE) 2P	1	
P7401		VJS1664	CONNECTOR (FEMALE)	1	
P7402		VJS1668	CONNECTOR (FEMALE)	1	
PP3001		VJP3044G009W	CONNECTOR (MALE)	1	
PP3002		VJP3044G012W	CONNECTOR (MALE)	1	
PP3003		VJP3044G006W	CONNECTOR (MALE)	1	
PP3901		VJP3042A011W	CONNECTOR (MALE)	1	
PP3902		VJP3042A012W	CONNECTOR (MALE)	1	
PP7401-03		VJP3043A005W	CONNECTOR (MALE)	3	
PP7404,05		VJP3043A006W	CONNECTOR (MALE)	2	
			TRANSISTORS		
Q2001		MSB709	TRANSISTOR	1	
Q2002		2SD1915	TRANSISTOR	1	
Q2101		MSB709	TRANSISTOR	1	
Q3001		MSB709	TRANSISTOR	1	
Q3201,02		MSC2295	TRANSISTOR	2	
Q3203		MSD601	TRANSISTOR	1	
Q3204		2SB970-R	TRANSISTOR CHIP	1	(R,S)
Q4001		MSD602-R	TRANSISTOR	1	
Q6101		MSC2295	TRANSISTOR	1	
Q6202		MSB710-R	TRANSISTOR	1	
Q6203		2SB1321-R	TRANSISTOR	1	
Q6601,02		MSD601	TRANSISTOR	2	
Q6603-05		2SD1994-S	TRANSISTOR	3	(S)
Q6606		MSD602	TRANSISTOR	1	
Q6607		MSD601	TRANSISTOR	1	
			COMBINATION PARTS		
QR1001		MRN1402	TRANSISTOR	1	
QR2001		MRN1404	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR2006		MRN1404	TRANSISTOR	1	
QR2101		MRN1407	TRANSISTOR	1	
QR2102		MRN1402	TRANSISTOR	1	
QR2103		MRN1404	TRANSISTOR	1	
QR3001		MRN2402	TRANSISTOR	1	
QR3007		MRN1403	TRANSISTOR	1	
QR4001		MRN1404	TRANSISTOR	1	
QR4102		MRN1404	TRANSISTOR	1	
QR4103		DTC363EK	TRANSISTOR-RESISTOR	1	
QR6006		UN2216	TRANSISTOR-RESISTOR	1	
QR6202		MRN1404	TRANSISTOR	1	
QR6601		UN2119	TRANSISTOR-RESISTOR	1	
QR6602		MRN2404	TRANSISTOR	1	
QR6603-05		MRN1403	TRANSISTOR	3	
QR6606,07		MRN2404	TRANSISTOR	2	
QR7401		MRN1402	TRANSISTOR	1	
			RESISTORS		
R2001,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2003		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2004		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2005		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2006-08		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R2009,10		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2011		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2012,13		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R2021,22		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2023		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2024		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2026		ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R2027		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2030		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2032		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2033		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2034		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2102		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R2103,04		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R2106		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2107		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2108		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2215		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2217		ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R2218		ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R2219		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2220-22		ERDS2TJ330	C.RESISTOR 1/4W 33	3	
R2223		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R2224		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2301,02		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2303		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2307		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2312		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3002		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3003		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3004		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3012		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3013		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3014		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3015		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3201,02		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3203		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3204,05		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3207,08		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3211		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3212		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3213		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3215		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3216		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3217		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3223		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3224		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4002		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4003		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4004		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4006		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4007		ERJ6GMYG221	M.RESISTOR CH 1/10W 220	1	
R4008		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4010		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4011		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4012		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014		ERJ6GMYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4015		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4016		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R4018		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019		ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4023		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024,25		ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4028		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4038		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4042		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4044		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4049		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4053		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4101		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4102		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4103		ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R4104		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4106		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6003,04		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6005		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6006,07		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6008-11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6012-15		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	4	
R6016,17		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6018		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6019		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6022		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6023		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6024,25		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6026,27		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R6032		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6036		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6037		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6038		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6039		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6052		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6053		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6054		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6056,57		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6061		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6062		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6063		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6064		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6065		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6066		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6103,04		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6201		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6204		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6205		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6502		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6601		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6602		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6605		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6606		ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6607		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6608		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6609		ERG3SJ220	M.RESISTOR 3W 22	1	
R6610		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6611		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6612		ERD2FCVG220	C.RESISTOR 2W 22	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6613		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6614		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6615		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6616		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6617		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6618		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6619		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R6620		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6621		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6622		ERJ6GMYJ121	M.RESISTOR CH 1/10W 120	1	
R6623		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7401		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R7402		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
			TRANSFORMERS		
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR2001		EVNDXAA00B54	V.RESISTOR 50K	1	
VR3012		EVNDXAA00B52	V.RESISTOR 500	1	
VR4002		EVNDXAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X6101		VSX0383	CRYSTAL OSCILLATOR	1	
X7401		VSQ0565	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VWJ0532B	FLAT CARD (CABLE)	1	
		VWJ160W170BB	FLAT CARD (CABLE)	1	
		VWJ200W170BB	FLAT CARD (CABLE)	1	
		VJF0974	FLAT CARD CRIP	1	
		VWJ0528B	FLAT CARD (CABLE)	1	(P1001-P1101)
		VWJ0529A	FLAT CARD (CABLE)	1	(P2001-P201)
		VWJ0530B	FLAT CARD (CABLE)	1	(P2002-P006)
		VWJ0533A	FLAT CARD (CABLE)	1	(P6001-P1504)
	■	VEP03843D	INPUT/OUTPUT C.B.A.		(NLA) NV-J11EN/BA
			CAPACITORS		
C3101		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3103,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3912		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C3913,14		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	2	
C3915		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C3916,17		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3918		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3919		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
			DIODES		
D3101		1SS254	DIODE	1	
D3102		MA29W	DIODE	1	
			INTEGRATED CIRCUITS		
IC3101		BA7004	IC	1	
IC3902		BA7604N	IC	1	
			COILS		
L3101		ELESQ101KA	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3901		ELESQ2R7KA	COIL 2.7UH	1	
L3902		ELESQ1R0KA	COIL 1UH	1	
L3905		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
PS3901		VJS3042F011W	CONNECTOR (FEMALE)	1	
PS3902		VJS3042B012W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q3101		2SD1991	TRANSISTOR	1	
			RESISTORS		
R3101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3901		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3906		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R3907,08		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3911		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3912		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3913		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
			SWITCHES		
SW3901		VSS0225	SWITCH	1	
			CRYSTAL OSCILLATORS		
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VEJ1124	JACK PLATE	1	
	■	VEP03843J	INPUT/OUTPUT C.B.A.		(NLA) NV-J11AM
			CAPACITORS		
C3101		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3103,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3912		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C3913,14		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	2	
C3915		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C3916,17		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3918		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3919		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
			DIODES		
D3101		1SS254	DIODE	1	
D3102		MA29W	DIODE	1	
			INTEGRATED CIRCUITS		
IC3101		BA7004	IC	1	
IC3902		BA7604N	IC	1	
			COILS		
L3101		ELESQ101KA	COIL 100UH	1	
L3901		ELESQ2R7KA	COIL 2.7UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3902		ELESQ1R0KA	COIL 1UH	1	
L3905		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
PS3901		VJS3042F011W	CONNECTOR (FEMALE)	1	
PS3902		VJS3042B012W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q3101		2SD1991	TRANSISTOR	1	
			RESISTORS		
R3101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3901		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3906		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R3907,08		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3911		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3912		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3913		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3915		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
			SWITCHES		
SW3901		VSS0152	SWITCH	1	
			CRYSTAL OSCILLATORS		
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VEJ1165	JACK PLATE	1	
	■	VEP03843K	INPUT/OUTPUT C.B.A.		(NLA) NV-J40EE
			CAPACITORS		
C3101		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3103,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3912		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C3913,14		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	2	
C3915		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C3916,17		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3918		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3919		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
			DIODES		
D3101		1SS254	DIODE	1	
D3102		MA29W	DIODE	1	
			INTEGRATED CIRCUITS		
IC3101		BA7004	IC	1	
IC3902		BA7604N	IC	1	
			COILS		
L3101		ELESQ101KA	COIL 100UH	1	
L3901		ELESQ2R7KA	COIL 2.7UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3902		ELESQ1R0KA	COIL 1UH	1	
L3905		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
PS3901		VJS3042F011W	CONNECTOR (FEMALE)	1	
PS3902		VJS3042B012W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q3101		2SD1991	TRANSISTOR	1	
			RESISTORS		
R3101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3901		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3906		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R3907,08		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3911		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3912		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3913		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3915		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
			SWITCHES		
SW3901		VSS0152	SWITCH	1	
			CRYSTAL OSCILLATORS		
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VEJ1128	JACK PLATE	1	
	■	VEP03843N	INPUT/OUTPUT C.B.A.		(NLA) NV-J11BD
			CAPACITORS		
C3101		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3103,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3912		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C3913,14		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	2	
C3915		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C3916,17		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3918		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3919		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
			DIODES		
D3101		MA165VT	DIODE	1	(VT)
D3102		MA29W	DIODE	1	
			INTEGRATED CIRCUITS		
IC3101		BA7004	IC	1	
IC3902		BA7604N	IC	1	
			COILS		
L3101		ELESQ101KA	COIL 100UH	1	
L3901		ELESQ2R7KA	COIL 2.7UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3902		ELESQ1R0KA	COIL 1UH	1	
L3905		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
PS3901		VJS3042F011W	CONNECTOR (FEMALE)	1	
PS3902		VJS3042B012W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q3101		2SD1991	TRANSISTOR	1	
			RESISTORS		
R3101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3901		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3906		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R3907,08		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3911		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3912		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3913		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3915		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
			SWITCHES		
SW3901		VSS0152	SWITCH	1	
			CRYSTAL OSCILLATORS		
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VEJ1166	JACK PLATE	1	
	■	VEP03857D	LUMINANCE & CHROMINANCE		(NLA)
			C.B.A.		NV-J11AM/BD,J40EE
			CAPACITORS		
C301		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C302		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C303		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C304,05		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C306		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C307,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C309		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C310		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C311		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C312		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C313		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C314		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C315		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C316		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C317		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C318		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C321		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C324		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C801		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C802		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C803		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C804,05		ECEA0JK101	E.CAPACITOR 6.3V 100U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C809,10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C811		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C812,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C814		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C819		ECEA0JFE221	E.CAPACITOR 6.3V 220U	1	
C820		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C821		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C822		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C823		ECQB1H332JH	P.CAPACITOR 50V 0.27U	1	
C824		ECUM1C105ZFN	C.CAPACITOR 16V 1U	1	
C825		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C826		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C827		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C829		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C830		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C831		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C832		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C833,34		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C835		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C836,37		ECUM1H104ZFN	C.CAPACITOR 50V	2	
C838-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C843		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C844		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C845		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
			DIODES		
D301		MA4091	DIODE	1	
D305		1SS254	DIODE	1	
D801		MA723VT	DIODE	1	(VT)
D803		1SS254	DIODE	1	
			DELAYS		
DL802		EFDWF124A13A	DELAY	1	
			FILTERS		
FL301		VLF0727	FILTER	1	
FL801		ELB4H060	FILTER	1	
			INTEGRATED CIRCUITS		
IC301		MSM6965-3RS	IC	1	
IC302		VEFH14D	IC	1	
IC801		M52063SP	IC	1	
IC802		M52065FP	IC	1	
			COILS		
L301-04		ELESQ101KA	COIL 100UH	4	
L305		ELESP560KA	COIL 56UH	1	
L801		ELESP560JA	COIL 56UH	1	
L802		ELESP270KA	COIL 27UH	1	
L803		ELESQ101KA	COIL 100UH	1	
L804		VLQ0188K150	COIL 15UH	1	
L807		VLQ0188K150	COIL 15UH	1	
L808		ELESQ101KA	COIL 100UH	1	
L809		VLQ0188K101	COIL 100UH	1	
L810-12		ELESQ101KA	COIL 100UH	3	
			TRANSISTORS		
Q301		MSC2295	TRANSISTOR	1	
Q303		MSB709	TRANSISTOR	1	
Q803		MSD601	TRANSISTOR	1	
Q805		MSD601	TRANSISTOR	1	
			COMBINATION PARTS		
QR304		MRN1403	TRANSISTOR	1	
QR801		MRN2404	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR802		MRN1404	TRANSISTOR	1	
QR803		IMH6		1	
			RESISTORS		
R301		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R302		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R303		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R304		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305,06		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R307		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R310,11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R313		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R316		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R317		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R319		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R321		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R801		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R802		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R803		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R804		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R813,14		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816,17		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R818,19		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R820,21		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R822		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R823		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R824		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R825,26		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R827		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R828		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R829		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R830		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R831		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R832		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R833		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R834		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R835		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R836		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R838		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R840		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R841		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R843-45		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R846		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R849		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
			VARIABLE RESISTORS		
VR301		EVTF6SA00B23	V.RESISTOR 2K	1	
VR803		EVTF6SA00B14	V.RESISTOR 10K	1	
			CRYSTAL OSCILLATORS		
X801		VSX0129	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJS3044F006W	CONNECTOR (FEMALE)	1	
		VJS3044F009W	CONNECTOR (FEMALE)	1	
		VJS3044F012W	CONNECTOR (FEMALE)	1	
	■	VEP03857K	LUMINANCE & CHROMINANCE		(NIA) NV-J11EN/BA
			C.B.A.		
			CAPACITORS		
C301		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C302		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C303		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C304,05		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C306		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C307,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C309		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C310		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C311		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C312		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C313		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C314		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C315		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C316		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C317		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C318		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C321		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C324		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C801		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C802		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C803		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C804,05		ECEA0JK101	E.CAPACITOR 6.3V 100U	2	
C809,10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C811		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C812,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C814		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C819		ECEA0JFE221	E.CAPACITOR 6.3V 220U	1	
C820		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C821		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C822		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C823		ECQB1H332JH	P.CAPACITOR 50V 0.27U	1	
C824		ECUM1C105ZFN	C.CAPACITOR 16V 1U	1	
C825		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C827		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C829		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C830		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C831		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C832		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C833,34		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C835		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C836,37		ECUM1H104ZFN	C.CAPACITOR 50V	2	
C838-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C843		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C844		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C845		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
			DIODES		
D301		MA4091	DIODE	1	
D305		1SS254	DIODE	1	
D801		MA723VT	DIODE	1	(VT)
D803		1SS254	DIODE	1	
			DELAYS		
DL802		EFDWF124A13A	DELAY	1	
			FILTERS		
FL301		VLF0727	FILTER	1	
FL801		ELB4H060	FILTER	1	
			INTEGRATED CIRCUITS		
IC301		MSM6965-3RS	IC	1	
IC302		VEFH14D	IC	1	
IC801		M52063SP	IC	1	
IC802		M52065FP	IC	1	
			COILS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L305		ELESP560KA	COIL 56UH	1	
L801		ELESP560JA	COIL 56UH	1	
L802		ELESP270KA	COIL 27UH	1	
L803		ELESQ101KA	COIL 100UH	1	
L804		VLQ0188K150	COIL 15UH	1	
L807		VLQ0188K150	COIL 15UH	1	
L808		ELESQ101KA	COIL 100UH	1	
L809		VLQ0188K101	COIL 100UH	1	
L810-12		ELESQ101KA	COIL 100UH	3	
			TRANSISTORS		
Q301		MSC2295	TRANSISTOR	1	
Q303		MSB709	TRANSISTOR	1	
Q803		MSD601	TRANSISTOR	1	
Q805		MSD601	TRANSISTOR	1	
			COMBINATION PARTS		
QR304		MRN1403	TRANSISTOR	1	
QR801		MRN2404	TRANSISTOR	1	
QR802		MRN1404	TRANSISTOR	1	
			RESISTORS		
R301		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R302		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R303		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R304		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305,06		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R307		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R310,11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R313		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R316		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R317		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R319		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R321		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R801		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R802		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R803		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R804		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R813,14		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816,17		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R818,19		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R820,21		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R822		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R823		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R824		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R825,26		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R827		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R828		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R829		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R830		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R831		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R832		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R834		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R835		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R836		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R838		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R840		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R841		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R843-45		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R846		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R849		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
			VARIABLE RESISTORS		
VR301		EVTF6SA00B23	V.RESISTOR 2K	1	
VR803		EVTF6SA00B14	V.RESISTOR 10K	1	
			CRYSTAL OSCILIATORS		
X801		VSX0129	CRYSTAL OSCILIATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VJS3044F006W	CONNECTOR (FEMALE)	1	
		VJS3044F009W	CONNECTOR (FEMALE)	1	
		VJS3044F012W	CONNECTOR (FEMALE)	1	
	■	VEP02375A	CYLINDER DRIVE C.B.A.		(NLA)
			CAPACITORS		
C201		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C203		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C204-06		ECEA1HKOR1	E.CAPACITOR 50V 0.1U	3	
C207		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C208-10		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C211		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C212		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C213		ECEA1CK100	E.CAPACITOR 16V 10U	1	
			INTEGRATED CIRCUITS		
IC201		NA3814K	IC	1	
			COILS		
L201		ELESE101KA	COIL 100UH	1	
			CONNECTORS		
P201		VJS2330	CONNECTOR (FEMALE)	1	
P202		VJP1250T	CONNECTOR (MALE) 10P	1	
			RESISTORS		
R201		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R202-04		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R205		ERDS2TJ1R2	C.RESISTOR 1/4W 1.2	1	
R206		ERDS2TJ1R5	C.RESISTOR 1/4W 1.5	1	
	■	VEP05167E	HEAD AMP C.B.A.		(NLA)
			CAPACITORS		
C503		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C505		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C508		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C509		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C510		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C512		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C513		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C516,17		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C518		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C519		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C520		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C521		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C522		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C523		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C528		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C529		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C530		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C533		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C534		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C536		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
C537		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C540		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C541		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C542,43		ECUM1H104ZFN	C.CAPACITOR 50V	2	
			INTEGRATED CIRCUITS		
IC501		BA7274S	IC	1	
			COILS		
L501		ELESP820KA	COIL 82UH	1	
L506		ELESP151KA	COIL 150UH	1	
L508		ELESQ101KA	COIL 100UH	1	
L509		ELESP270KA	COIL 27UH	1	
L510		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
P501		VJS1680	CONNECTOR (FEMALE)	1	
PS002		VJS3069T	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q502		MSB709-R	TRANSISTOR	1	
Q503		MSC2295	TRANSISTOR	1	
			RESISTORS		
R505		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R507		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R509		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R510		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R512		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R513		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R514,15		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R516		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R519		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R520,21		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	2	
R523		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R525		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R526		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R529		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R530		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R532		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R533		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R534		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R536		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R537		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R598		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
			VARIABLE RESISTORS		
VR501		EVND6AA00B23	V.RESISTOR	1	
VR502		EVND6AA00B13	V.RESISTOR	1	
			MISCELLANEOUS		
		VSC2355	SHIELD COVER (BOTTOM)	1	
		VSC3303	SHIELD COVER (TOP)	1	
		VSC3304	SHIELD COVER (MAIN)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP07637H	TIMER C.B.A.		(NLA) NV-J11EN
			CAPACITORS		
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7506		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7507		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7510		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C7513		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7520-24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7526		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
			DIODES		
D7501		MA4220-H		1	
D7508		MA221	DIODE	1	
D7518		MA221	DIODE	1	
D7521,22		MA221	DIODE	2	
D7525		MA221	DIODE	1	
D7539,40		MA221	DIODE	2	
D7544-47		MA221	DIODE	4	
D7553		LN38GCPLV	DIODE	1	
			DISPLAY TUBES		
DP7501		VSL0239	DISPLAY TUBE	1	
			INTEGRATED CIRCUITS		
IC7501		MN187164VS	IC	1	
IC7502		M6M80021P	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	(S)
IC7505		M66006FP		1	
			COILS		
L7501		ELESE151KA	COIL 150UH	1	
			CONNECTORS		
P7501		VJS1686	CONNECTOR (FEMALE)	1	
P7502		VJS1690	CONNECTOR (FEMALE)	1	
PP7503		VJP3084A005	CONNECTOR (MALE)	1	
			TRANSISTORS		
QR7501		MRN1404	TRANSISTOR	1	
			RESISTORS		
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511,12		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7515		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518,19		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-26		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7528		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7534		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7560		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7568		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7570		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7572		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7573		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7575-78		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7580		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R7581,82		ERJ6GMYK2R2	M.RESISTOR CH 1/10W 2.2	2	
R7586		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7587,88		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
			SWITCHES		
SW7501		ESD170306	SWITCH	1	
SW7504-08		EVQ11407K	SWITCH	5	
SW7511		EVQ11407K	SWITCH	1	
SW7513		EVQ11407K	SWITCH	1	
SW7515-26		EVQ11407K	SWITCH	12	
SW7532,33		EVQ11407K	SWITCH	2	
			VARIABLE RESISTORS		
VR7501		EVUJ16E04B24	V.RESISTOR 20K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094-C	CRYSTAL OSCILLATOR	1	
			MISCEELANEOUS		
		VJF0934	FIP HOLDER	1	
		VJF0935	LED HOLDER	1	
		VGU5531	SW KNOB	1	
		VSC3230	SHIELD COVER (TOP)	1	FOR IR RECEIVER UNIT
		VSC3231	SHIELD COVER (BOTTOM)	1	FOR IR RECEIVER UNIT
	■	VEP07637Q	TIMER C.B.A.		(NLA) NV-J11AM
			CAPACITORS		
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7506		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7507		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7510		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C7513		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7520-24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7526		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
			DIODES		
D7501		MA4220-H		1	
D7508		MA221	DIODE	1	
D7518		MA221	DIODE	1	
D7521,22		MA221	DIODE	2	
D7528		MA221	DIODE	1	
D7539,40		MA221	DIODE	2	
D7544-47		MA221	DIODE	4	
D7553		LN38GCPLV	DIODE	1	
D7555		LN38GCPLV	DIODE	1	
			DISPLAY TUBES		
DP7501		VSL0239	DISPLAY TUBE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			INTEGRATED CIRCUITS		
IC7501		MN187164VS	IC	1	
IC7502		M6M80021P	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	(S)
IC7505		M66006FP		1	
			COILS		
L7501		ELESE151KA	COIL 150UH	1	
			CONNECTORS		
P7501		VJS1686	CONNECTOR (FEMALE)	1	
P7502		VJS1690	CONNECTOR (FEMALE)	1	
PP7503		VJP3084A005	CONNECTOR (MALE)	1	
			COMBINATION PARTS		
QR7501		MRN1404	TRANSISTOR	1	
QR7502		MRN2404	TRANSISTOR	1	
QR7503		UN2216	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511,12		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7515		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518,19		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-26		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7528		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7534		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7560		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7564		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7568		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7570		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7572		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7573		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7575-78		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7580		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R7581,82		ERJ6GMYK2R2	M.RESISTOR CH 1/10W 2.2	2	
R7586		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7587,88		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
			SWITCHES		
SW7504-08		EVQ11407K	SWITCH	5	
SW7511		EVQ11407K	SWITCH	1	
SW7513		EVQ11407K	SWITCH	1	
SW7515-26		EVQ11407K	SWITCH	12	
SW7532,33		EVQ11407K	SWITCH	2	
			VARIABLE RESISTORS		
VR7501		EVUJ16E04B24	V.RESISTOR 20K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094-C	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0934	FIP HOLDER	1	
		VJF0935	LED HOLDER	1	
		VGU5531	SW KNOB	1	
		VSC3230	SHIELD COVER (TOP)	1	FOR IR RECEIVER UNIT

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VSC3231	SHIELD COVER (BOTTOM)	1	FOR IR RECEIVER UNIT
	■	VEP07637R	TIMER C.B.A.		(NLA) NV-J40EE
			CAPACITORS		
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7506		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7507		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7510		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C7512		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7513		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7520-24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7526		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
			DIODES		
D7501		MA4220-H		1	
D7502		MA221	DIODE	1	
D7508		MA221	DIODE	1	
D7518		MA221	DIODE	1	
D7521,22		MA221	DIODE	2	
D7528		MA221	DIODE	1	
D7539,40		MA221	DIODE	2	
D7544-47		MA221	DIODE	4	
D7553		LN38GCPLV	DIODE	1	
D7555		LN38GCPLV	DIODE	1	
			DISPLAY TUBES		
DP7501		VSL0239	DISPLAY TUBE	1	
			INTEGRATED CIRCUITS		
IC7501		MN187164VS	IC	1	
IC7502		M6M80021P	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	(S)
IC7505		M66006FP		1	
			COILS		
L7501		ELESE151KA	COIL 150UH	1	
			CONNECTORS		
P7501		VJS1686	CONNECTOR (FEMALE)	1	
P7502		VJS1690	CONNECTOR (FEMALE)	1	
PP7503		VJP3084A005	CONNECTOR (MALE)	1	
			COMBINATION PARTS		
QR7501		MRN1404	TRANSISTOR	1	
QR7502		MRN2404	TRANSISTOR	1	
QR7503		UN2216	TRANSISTOR-RESISTOR	1	
QR7504		MRN1404	TRANSISTOR	1	
QR7505		UN2216	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511,12		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7515		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518,19		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-26		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7528		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7534		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7560		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7563		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7564		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7568		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7570		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7572		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7573		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7575-78		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7580		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R7581,82		ERJ6GMYK2R2	M.RESISTOR CH 1/10W 2.2	2	
R7586		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7587,88		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
			SWITCHES		
SW7501		ESD170306	SWITCH	1	
SW7504-08		EVQ11407K	SWITCH	5	
SW7511		EVQ11407K	SWITCH	1	
SW7513		EVQ11407K	SWITCH	1	
SW7515-26		EVQ11407K	SWITCH	12	
SW7532,33		EVQ11407K	SWITCH	2	
			VARIABLE RESISTORS		
VR7501		EVUJ16E04B24	V.RESISTOR 20K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094-C	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0934	FIP HOLDER	1	
		VJF0935	LED HOLDER	1	
		VGU5531	SW KNOB	1	
		VSC3230	SHIELD COVER (TOP)	1	FOR IR RECEIVER UNI
		VSC3231	SHIELD COVER (BOTTOM)	1	FOR IR RECEIVER UNI
	■	VEP07637T	TIMER C.B.A.		(NLA) NV-J11BA
			CAPACITORS		
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7506		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7507		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7510		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C7513		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7520-24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7526		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			DIODES		
D7501		MA4220-H		1	
D7508-10		MA221	DIODE	3	
D7518		MA221	DIODE	1	
D7521,22		MA221	DIODE	2	
D7539,40		MA221	DIODE	2	
D7544-47		MA221	DIODE	4	
D7553		LN38GCPLV	DIODE	1	
			DISPLAY TUBES		
DP7501		VSL0239	DISPLAY TUBE	1	
			INTEGRATED CIRCUITS		
IC7501		MN187164VS	IC	1	
IC7502		M6M80021P	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	(S)
IC7505		M66006FP		1	
			COILS		
L7501		ELESE151KA	COIL 150UH	1	
			CONNECTORS		
P7501		VJS1686	CONNECTOR (FEMALE)	1	
P7502		VJS1690	CONNECTOR (FEMALE)	1	
PP7503		VJP3084A005	CONNECTOR (MALE)	1	
			TRANSISTORS		
QR7501		MRN1404	TRANSISTOR	1	
			RESISTORS		
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511,12		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7515		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518,19		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-26		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7528		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7534		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7560		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7568		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7570		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7572		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7573		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7575-78		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7580		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R7581,82		ERJ6GMYK2R2	M.RESISTOR CH 1/10W 2.2	2	
R7586		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7587,88		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
			SWITCHES		
SW7501		ESD170306	SWITCH	1	
SW7504-08		EVQ11407K	SWITCH	5	
SW7511		EVQ11407K	SWITCH	1	
SW7513		EVQ11407K	SWITCH	1	
SW7515		EVQ11407K	SWITCH	1	
SW7517-26		EVQ11407K	SWITCH	10	
SW7532,33		EVQ11407K	SWITCH	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			VARIABLE RESISTORS		
VR7501		EVUJ16E04B24	V.RESISTOR 20K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094-C	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0934	FIP HOLDER	1	
		VJF0935	LED HOLDER	1	
		VGU5531	SW KNOB	1	
		VSC3230	SHIELD COVER (TOP)	1	FOR IR RECEIVER UNIT
		VSC3231	SHIELD COVER (BOTTOM)	1	FOR IR RECEIVER UNIT
	■	VEP07637U	TIMER C.B.A.		(NLA) NV-J11BD
			CAPACITORS		
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7506		ECUM1H104ZFN	C.CAPACITOR 50V	1	
C7507		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7510		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C7513		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C7520-24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7526		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
			DIODES		
D7501		MA4220-H	DIODE	1	
D7508		MA221	DIODE	1	
D7518		MA221	DIODE	1	
D7521,22		MA221	DIODE	2	
D7527,28		MA221	DIODE	2	
D7539,40		MA221	DIODE	2	
D7544-47		MA221	DIODE	4	
D7553		LN38GCPLV	DIODE	1	
D7555		LN38GCPLV	DIODE	1	
D7565,66		MA221	DIODE	2	
			DISPLAY TUBES		
DP7501		VSL0239	DISPLAY TUBE	1	
			INTEGRATED CIRCUITS		
IC7501		MN187164VS	IC	1	
IC7502		M6M80021P	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	(S)
IC7505		M66006FP		1	
			COILS		
L7501		ELESE151KA	COIL 150UH	1	
			CONNECTORS		
P7501		VJS1686	CONNECTOR (FEMALE)	1	
P7502		VJS1690	CONNECTOR (FEMALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
PP7503		VJP3084A005	CONNECTOR (MALE)	1	
			COMBINATION PARTS		
QR7501		MRN1404	TRANSISTOR	1	
QR7502		UN2113	TRANSISTOR-RESISTOR	1	
QR7503		UN2216	TRANSISTOR-RESISTOR	1	
QR7505		UN2216	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511,12		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7515		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518,19		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7523-26		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7528		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7534		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7560		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7564		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7568		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7570		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7572		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7573		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7575-78		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7580		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R7581,82		ERJ6GMYK2R2	M.RESISTOR CH 1/10W 2.2	2	
R7586		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7587,88		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
			SWITCHES		
SW7501		ESD170306	SWITCH	1	
SW7504-08		EVQ11407K	SWITCH	5	
SW7511		EVQ11407K	SWITCH	1	
SW7513		EVQ11407K	SWITCH	1	
SW7515-26		EVQ11407K	SWITCH	12	
SW7532,33		EVQ11407K	SWITCH	2	
			VARIABLE RESISTORS		
VR7501		EVUJ16E04B24	V.RESISTOR 20K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094-C	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0934	FIP HOLDER	1	
		VJF0935	LED HOLDER	1	
		VGU5531	SW KNOB	1	
		VSC3230	SHIELD COVER (TOP)	1	FOR IR RECEIVER UNIT
		VSC3231	SHIELD COVER (BOTTOM)	1	FOR IR RECEIVER UNIT
	■	VEP00R31A	OPERATION C.B.A.		(NLA)
			DIODES		
D4351		LN28RPX2TA12	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTORS		
PP4352		VJP3084A005	CONNECTOR (MALE)	1	
			RESISTORS		
R4354		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
			SWITCHES		
SW4351		EVQ11407K	SWITCH	1	
			MISCELLANEOUS		
		VMX2030	LED SPACER	1	
	■	VEP07629B	TV DEMODULATOR C.B.A.		(NLA) NV-J11EN
			CAPACITORS		
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C706		ECUY1H104ZFG	CAPACITOR 50V	1	
C707		ECEA1HKSR47	E.CAPACITOR 50V 0.47U	1	
C708,09		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C721-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C726		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C727		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C729		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C732		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C734		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C736		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C737		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C738		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C739,40		ECEA1HKR47	E.CAPACITOR 50V 0.47U	2	
C743		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C745		ECUM1H470JPN	C.CAPACITOR CH 50V 47P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C764		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C765		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C783		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C797-99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7661		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7662		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7663		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7664		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670,71		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7673		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7678		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C7679		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
			DIODES		
D710		MA3091-M	DIODE	1	
D711		MA3056-M	DIODE	1	
D771		MA151WK	DIODE	1	
D772,73		MA151K	DIODE	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7601		MA151A	DIODE	1	
D7602		MA3082M	DIODE	1	
			INTEGRATED CIRCUITS		
IC701		AN5183K	IC	1	
IC7652		AN5043	IC	1	
			COILS		
L701		ELESQ101KA	COIL 100UH	1	
L711		VLQ0305JR27	COIL 0.27UH	1	
L716-18		ELESQ680KA	COIL 68UH	3	
L719		VLQEL05F120K	COIL 12UH	1	
L764		ELESP470KA	COIL 47UH	1	
			CONNECTORS		
PS701-03		VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q703		MSD601-S	TRANSISTOR	1	
Q712		2SD1994	TRANSISTOR	1	
Q713		2SD1328-S	TRANSISTOR	1	
Q771		MSD601-ST	TRANSISTOR	1	
Q771		MSD601-S	TRANSISTOR	1	
			COMBINATION PARTS		
QR701,02		MRN1404	TRANSISTOR	2	
QR713		MRN1402	TRANSISTOR	1	
QR7601		MRN1404	TRANSISTOR	1	
			RESISTORS		
R701		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R703		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R704		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R705		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R706		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R709		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R720		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R726		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R727		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R728		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R730		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R739		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R741		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
R746		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R748		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R756		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R758		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R767		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7671,72		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7691		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7695		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7696		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSFORMERS		
T703		EIV5EC038A	TRANSFORMER	1	
T704		EIV5EC035A	TRANSFORMER	1	
T711		EIS5EC018A	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVNDXAA00B23	V.RESISTOR 2K	1	
VR751		EVNDXAA00B53	V.RESISTOR 5K	1	
			CRYSTAL OSCILLATORS		
X710		EFCH38MVK7N	CRYSTAL OSCILLATOR	1	
X711		VLF0638	CRYSTAL OSCILLATOR	1	
X712		VLF0637	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		ENV778803H3	TUNER	1	<!>
		VSC3242	SHIELD COVER (MAIN)	1	
		VSC3379	SHIELD COVER (TOP)	1	
		VMC0727	ERATH SPRING	1	
	■	VEP07629D	TV DEMODULATOR C.B.A.		(NLA) NV-J11AM/BD
			CAPACITORS		
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C706		ECUY1H104ZFG	CAPACITOR 50V	1	
C707		ECEA1HKSR47	E.CAPACITOR 50V 0.47U	1	
C708,09		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C721-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C726		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C727		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C729		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C732		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C734		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C736		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C737		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C738		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C739,40		ECEA1HKR47	E.CAPACITOR 50V 0.47U	2	
C743		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C745		ECUM1H470JPN	C.CAPACITOR CH 50V 47P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C751,52		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C753		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C754		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C755,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C761		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C764		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C765		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C783		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C797-99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7661		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7662		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7663		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7664		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7667		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670,71		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7673		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7678		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C7679		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
			DIODES		
D710		MA3091-M	DIODE	1	
D711		MA3056-M	DIODE	1	
D771		MA151WK	DIODE	1	
D772,73		MA151K	DIODE	2	
D7601		MA151A	DIODE	1	
D7602		MA3082M	DIODE	1	
			INTEGRATED CIRCUITS		
IC701		AN5183K	IC	1	
IC702		TA8710S	IC	1	
IC7652		AN5043	IC	1	
			COILS		
L701		ELESQ101KA	COIL 100UH	1	
L711		VLQ0305JR56	COIL 0.56UH	1	
L716-18		ELESQ680KA	COIL 68UH	3	
L719		VLQEL05F5R6K	COIL 5.6UH	1	
L764		ELESP470KA	COIL 47UH	1	
			CONNECTORS		
PS701-03		VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q703		MSD601-S	TRANSISTOR	1	
Q712		2SD1994	TRANSISTOR	1	
Q713		2SD1328-S	TRANSISTOR	1	
Q771		MSD601-S	TRANSISTOR	1	
			COMBINATION PARTS		
QR701,02		MRN1404	TRANSISTOR	2	
QR713		MRN1402	TRANSISTOR	1	
QR715		MRN1404	TRANSISTOR	1	
QR7601		MRN1404	TRANSISTOR	1	
			RESISTORS		
R701		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R703		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R704		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R705		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R706		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R709		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R720		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R726		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R727		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R728		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R730		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R739		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R741		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
R746		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R748		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R751		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R752		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R756		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R758		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R767		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7671,72		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7691		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7695		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7696		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
			TRANSFORMERS		
T703		EIV5EC041A	TRANSFORMER	1	
T704		EIV5EC040A	TRANSFORMER	1	
T711		EIS5EC019A	TRANSFORMER	1	
T712		EIS5EC020A	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVNDXAA00B23	V.RESISTOR 2K	1	
VR751		EVNDXAA00B53	V.RESISTOR 5K	1	
			CRYSTAL OSCILLATORS		
X710		EFCH38MVK30	CRYSTAL OSCILLATOR	1	
X711		EFCT3F02W3B	CRYSTAL OSCILLATOR	1	
X712		EFCT6R0MS5	CRYSTAL OSCILLATOR	1	
X714		EF0A500K04B	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		ENV79828H3	TUNER	1	<!>
		VSC3242	SHIELD COVER (MAIN)	1	
		VSC3379	SHIELD COVER (TOP)	1	
		VMC0727	EARTH SPRING	1	
	■	VEP07629F	TV DEMODULATOR C.B.A.		(NLA) NV-J11BA
			CAPACITORS		
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C706		ECUY1H104ZFG	CAPACITOR 50V	1	
C707		ECEA1HKSR47	E.CAPACITOR 50V 0.47U	1	
C708,09		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C721-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C726		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C727		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C729		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C732		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C734		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C736		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C737		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C738		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C739,40		ECEA1HKR47	E.CAPACITOR 50V 0.47U	2	
C743		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C744		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C745		ECUM1H470JFN	C.CAPACITOR CH 50V 47P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C764		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C765		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C783		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C797-99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7661		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7662		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7663		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7664		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670,71		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7673		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7678		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C7679		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
			DIODES		
D710		MA3091-M	DIODE	1	
D711		MA3056-M	DIODE	1	
D771		MA151WK	DIODE	1	
D772,73		MA151K	DIODE	2	
D7601		MA151A	DIODE	1	
D7602		MA3082M	DIODE	1	
			INTEGRATED CIRCUITS		
IC701		AN5183K	IC	1	
IC7652		AN5043	IC	1	
			COILS		
L701		ELESQ101KA	COIL 100UH	1	
L711		VLQ0305JR27	COIL 0.27UH	1	
L716-18		ELESQ680KA	COIL 68UH	3	
L719		VLQEL05F120K	COIL 12UH	1	
L764		ELESP470KA	COIL 47UH	1	
			CONNECTORS		
PS701-03		VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q703		MSD601-S	TRANSISTOR	1	
Q712		2SD1994	TRANSISTOR	1	
Q713		2SD1328-S	TRANSISTOR	1	
Q771		MSD601-S	TRANSISTOR	1	
			COMBINATION PART		
QR701,02		MRN1404	TRANSISTOR	2	
QR713		MRN1402	TRANSISTOR	1	
QR7601		MRN1404	TRANSISTOR	1	
			RESISTORS		
R701		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R703		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R704		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R705		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R706		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R709		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R720		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R726		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R727		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R728		ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R730		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R739		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R741		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
R746		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R748		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R756		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R758		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R767		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7671,72		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7691		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7695		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7696		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
			TRANSFORMERS		
T703		EIV5EC038A	TRANSFORMER	1	
T704		EIV5EC035A	TRANSFORMER	1	
T711		EIS5EC019A	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVNDXAA00B23	V.RESISTOR 2K	1	
VR751		EVNDXAA00B53	V.RESISTOR 5K	1	
			CRYSTAL OSCILLATORS		
X710		EFCH38MVK7N	CRYSTAL OSCILLATOR	1	
X711		EFCT6R0MW5	CRYSTAL OSCILLATOR	1	
X712		EFCT6R0MS5	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		ENV79827H3	TUNER	1	<!>
		VSC3242	SHIELD COVER (MAIN)	1	
		VSC3379	SHIELD COVER (TOP)	1	
		VMC0727	EARTH SPRING	1	
	■	VEP07629G	TV DEMODULATOR C.B.A.		(NLA) NV-J40EE
			CAPACITORS		
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C706		ECUY1H104ZFG	CAPACITOR 50V	1	
C708,09		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C721-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C726		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C727		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C729		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK330	E.CAPACITOR 16V 33U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C734	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C736	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C737	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C738	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C739,40	ECEA1HKR47	E.CAPACITOR 50V 0.47U	2	
C743	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C744	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C745	ECUM1H470JPN	C.CAPACITOR CH 50V 47P	1	
C746	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748	ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C749	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C751,52	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C753	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C754	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C755,56	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C761	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C764	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C765	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C783	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C797-99	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7651	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653	ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C7654	ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7655,56	ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7657	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7658	ECQP1H562JZ	P.CAPACITOR 50V 5600P	1	
C7659	ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7661	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7662	ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7663	ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7664	ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667	ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670,71	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7673	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7678	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C7680	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7681	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
		DIODES		
D710	MA3091-M	DIODE	1	
D711	MA3056-M	DIODE	1	
D771	MA151WK	DIODE	1	
D772,73	MA151K	DIODE	2	
D7601	MA151A	DIODE	1	
D7602	MA3082M	DIODE	1	
		INTEGRATED CIRCUITS		
IC701	AN5183K	IC	1	
IC702	TA8710S	IC	1	
IC7651	AN5421N	IC	1	
IC7652	AN5043	IC	1	
IC7653	MN4066BS	IC	1	
		COILS		
L701	ELESQ101KA	COIL 100UH	1	
L711	VLQ0305JR56	COIL 0.56UH	1	
L716-18	ELESQ680KA	COIL 68UH	3	
L719	VLQEL05F5R6K	COIL 5.6UH	1	
L720	ELESQ101KA	COIL 100UH	1	
L764	ELESP470KA	COIL 47UH	1	
		CONNECTORS		
PS701-03	VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704	VJS3043B006W	CONNECTOR (FEMALE)	1	
		TRANSISTORS		
Q703	MSD601-S	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q712	2SD1994	TRANSISTOR	1	
Q713	2SD1328-S	TRANSISTOR	1	
Q771	MSD601-S	TRANSISTOR	1	
Q772	MSD601-S	TRANSISTOR	1	
		COMBINATION PARTS		
QR701,02	MRN1404	TRANSISTOR	2	
QR713	MRN1402	TRANSISTOR	1	
QR715	MRN1404	TRANSISTOR	1	
QR7601	MRN1404	TRANSISTOR	1	
		RESISTORS		
R701	ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R703	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R704	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R705	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R706	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R709	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R720	ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R721	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R726	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R727	ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R728	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R730	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R739	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R746	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R748	ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R751	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R752	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R756	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R758	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R767	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R772	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R792	ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R795	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7651	ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7654	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7655	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7656	ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R7657	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7658	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7659	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7661	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7662	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7663	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7664	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7671,72	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674	ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676	ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679	ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7681,82	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7691	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7692	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7694	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7695	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7696	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
		TRANSFORMERS		
T703	EIN5EC041A	TRANSFORMER	1	
T704	EIN5EC040A	TRANSFORMER	1	
T711	EIS5EC019A	TRANSFORMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
T712		EIS5EC020A	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR701		EVNDXAA00B23	V.RESISTOR 2K	1	
VR751		EVNDXAA00B53	V.RESISTOR 5K	1	
VR7660		EVNDXAA00B23	V.RESISTOR 2K	1	
			CRYSTAL OSCILLATORS		
X710		EFCH38MVK30	CRYSTAL OSCILLATOR	1	
X711		EFCT3F02W3B	CRYSTAL OSCILLATOR	1	
X712		EFCT6ROMS5	CRYSTAL OSCILLATOR	1	
X714		EFOA500K04B	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		ENV79828H3	TUNER	1	<!>
		VSC3242	SHIELD COVER (MAIN)	1	
		VSC3379	SHIELD COVER (TOP)	1	
		VMC0727	EARTH SPRING	1	
	■	VEP01469D	POWER C.B.A.		(NLA)<!> NV-J11BA
			CAPACITORS		
C1101		VCC0019	C.CAPACITOR 330P	1	
C1106		VCC0019	C.CAPACITOR 330P	1	
C1107		ECQU2A563MNB	P.CAPACITOR 100V 0.056U	1	<!>
C1108		ECQU2A333MNB	P.CAPACITOR 100V 0.033U	1	<!>
C1109		ECES2WU680B	E.CAPACITOR	1	
C1110		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1111		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C1114		VCC0022	C.CAPACITOR 1000P	1	
C1115		ECQE6473B11	P.CAPACITOR	1	
C1116		VCK0106K331	C.CAPACITOR	1	
C1117		ECA1CXLV470	E.CAPACITOR	1	
C1118		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C1119		ECQB1H123JF	P.CAPACITOR 50V 0.012U	1	
C1120		ECEA1HNX100	E.CAPACITOR 50V 10U	1	
C1121		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1122		ECQV1H105JF	P.CAPACITOR 50V 1U	1	
C1123		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1124		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1125		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1126		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1127		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1128		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1129		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1130		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1131		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1132-35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1136,37		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1138		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1139		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1151		ECCF1H680JC5	C.CAPACITOR 50V 68P	1	
C1153		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C1154		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1155		ECCD2H101J	C.CAPACITOR 500V 100P	1	
			DIODES		
D1101		S1WBA60S	DIODE	1	
D1102		1SS254	DIODE	1	
D1103		VSD0002	DIODE	1	
D1104		AP01C	DIODE	1	
D1105		MA4030L	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D1106-08		MA178	DIODE	3	
D1109		ERA22-02	DIODE	1	
D1110		RL2Z	DIODE	1	
D1111		MA2160B	DIODE	1	
D1112		MA185	DIODE	1	
D1113,14		11EQS04	DIODE	2	
D1115		MA4130L	DIODE	1	
			INTEGRATED CIRCUITS		
IC1101		STRD6108	IC	1	
IC1102		SE014N	IC	1	
IC1103		VEFH24A	HIC	1	
			COILS		
L1101		ELF18D290A	COIL	1	
L1107		ELF18D290A	COIL	1	
L1108		VLP0085	FILTER	1	
L1109		VLQ0410	COIL	1	
			CONNECTORS		
P1101		VJS2625	CONNECTOR (FEMALE)	1	
P1102		VJS1683	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1101		2SD1996	TRANSISTOR	1	
Q1102		2SD1992A	TRANSISTOR	1	
Q1103		PS2561L1-1	TRANSISTOR	1	
Q1104		2SD1996	TRANSISTOR	1	
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R1102,03		ERDS1TJ563	C.RESISTOR 1/2W 56K	2	
R1104,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1106		ERW1PK2R2	W.RESISTOR 1W	1	
R1107		ERW1PKR39	W.RESISTOR 1W 0.39	1	
R1108		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1109		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1110		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R1111		ERG2SJ560	M.RESISTOR 2W 56	1	
R1112		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1113		ERG2SJ100U	M.RESISTOR 2W 10	1	
R1114		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R1115		ERG1SJ182	M.RESISTOR 1W 1.8K	1	
R1116		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1118		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1119		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1120		ERG2SJ120U	M.RESISTOR 2W 12	1	
			TRANSFORMERS		
T1101		ETE28K61AY	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	
		VMZ1184	CAPACITOR COVER (B)	2	
	■	VEP01469E	POWER C.B.A.		(NLA)<!> NV-J11BD
			CAPACITORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1101		VCC0021	C.CAPACITOR	1	
C1106		VCC0021	C.CAPACITOR	1	
C1107		ECQU2A224MN	P.CAPACITOR 100V 0.22U	1	<!>
C1108		ECQU2A154MNB	P.CAPACITOR 100V 0.15U	1	<!>
C1109		ECES2WU680B	E.CAPACITOR	1	
C1110		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1111		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C1114		VCC0022	C.CAPACITOR 1000P	1	
C1115		ECQE6473B11	P.CAPACITOR	1	
C1116		VCK0106K151T		1	
C1117		ECA1CXLV470	E.CAPACITOR	1	
C1118		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C1119		ECQB1H123JF	P.CAPACITOR 50V 0.012U	1	
C1120		ECEA1HNX100	E.CAPACITOR 50V 10U	1	
C1121		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1122		ECQV1H105JF	P.CAPACITOR 50V 1U	1	
C1123		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1124		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1125		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1126		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1127		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1128		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1129		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1130		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1131		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1132-35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1136,37		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1138		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1139		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1141		ECCD2H151J	C.CAPACITOR 500V 150P	1	
C1151		ECCF1H680JC5	C.CAPACITOR 50V 68P	1	
C1153		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C1154		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1155		ECCD2H101J	C.CAPACITOR 500V 100P	1	
			DIODES		
D1101		S1WBA60S	DIODE	1	
D1102		1SS254	DIODE	1	
D1103		VSD0002	DIODE	1	
D1104		AP01C	DIODE	1	
D1105		MA4030L	DIODE	1	
D1106-08		MA178	DIODE	3	
D1109		ERA22-02	DIODE	1	
D1110		RL2Z	DIODE	1	
D1111		MA2160B	DIODE	1	
D1112		MA185	DIODE	1	
D1113,14		11EQS04	DIODE	2	
D1115		MA4130L	DIODE	1	
			INTEGRATED CIRCUITS		
IC1101		STRD6108	IC	1	
IC1102		SE014N	IC	1	
IC1103		VEFH24A	HIC	1	
			COILS		
L1101		ELF18D221F	COIL	1	
L1107		ELF18D221F	COIL	1	
L1108		VLP0085	FILTER	1	
L1109		VLQ0410	COIL	1	
L1110		VLP0074	COIL	1	
			CONNECTORS		
P1101		VJS2625	CONNECTOR (FEMALE)	1	
P1102		VJS1683	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1101		2SD1996	TRANSISTOR	1	
Q1102		2SD1992A	TRANSISTOR	1	
Q1103		PS2561L1-1	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q1104		2SD1996	TRANSISTOR	1	
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R1102,03		ERDS1TJ563	C.RESISTOR 1/2W 56K	2	
R1104,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1106		ERW1PK2R2	W.RESISTOR 1W	1	
R1107		ERW1PKR30	W.RESISTOR 1W 0.3	1	
R1108		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R1109		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1110		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R1111		ERG2SJ560	M.RESISTOR 2W 56	1	
R1112		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1113		ERG2SJ100U	M.RESISTOR 2W 10	1	
R1114		ERDS2TJ820	C.RESISTOR 1/4W 82	1	
R1115		ERG1SJ182	M.RESISTOR 1W 1.8K	1	
R1116		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1118		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1119		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1120		ERG2SJ120U	M.RESISTOR 2W 12	1	
			TRANSFORMERS		
T1101		ETE28K67AY	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	
		VMZ1184	CAPACITOR COVER (B)	2	
	■	VEP01469P	POWER C.B.A.		(NLA)<!> NV-J40EE
			CAPACITORS		
C1101		VCC0021	C.CAPACITOR	1	
C1106		VCC0021	C.CAPACITOR	1	
C1107		ECQU2A154MNB	P.CAPACITOR 100V 0.15U	1	
C1108		ECQU2A683MN	P.CAPACITOR 250V 0.068U	1	
C1109		ECES2WU680B	E.CAPACITOR	1	
C1110		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1111		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C1114		VCC0022	C.CAPACITOR 1000P	1	
C1115		ECQE6473B11	P.CAPACITOR	1	
C1116		VCK0106K331	C.CAPACITOR	1	
C1117		ECA1CXLV470	E.CAPACITOR	1	
C1118		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C1119		ECQB1H123JF	P.CAPACITOR 50V 0.012U	1	
C1120		ECEA1HNX100	E.CAPACITOR 50V 10U	1	
C1121		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1122		ECQV1H105JF	P.CAPACITOR 50V 1U	1	
C1123		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1124		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1125		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1126		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1127		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1128		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1129		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1130		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1131		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1132-35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1136,37		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1138		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1139		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1151		ECCF1H680JC5	C.CAPACITOR 50V 68P	1	
C1153		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C1154		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1155		ECCD2H101J	C.CAPACITOR 500V 100P	1	
			DIODES		
D1101		S1WBA60S	DIODE	1	
D1102		1SS254	DIODE	1	
D1103		VSD0002	DIODE	1	
D1104		AP01C	DIODE	1	
D1105		MA4030L	DIODE	1	
D1106-08		MA178	DIODE	3	
D1109		ERA22-02	DIODE	1	
D1110		RL2Z	DIODE	1	
D1111		MA2160B	DIODE	1	
D1112		MA185	DIODE	1	
D1113,14		11EQS04	DIODE	2	
D1115		MA4130L	DIODE	1	
D1116		SNR-300K4	SURGE ABSORBER	1	
			INTEGRATED CIRCUITS		
IC1101		STRD6108	IC	1	
IC1102		SE014N	IC	1	
IC1103		VEFH24A	HIC	1	
			COILS		
L1107		ELF18D221F	COIL	1	
L1108		VLP0085	FILTER	1	
L1109		VLQ0410	COIL	1	
			CONNECTORS		
P1101		VJS2625	CONNECTOR (FEMALE)	1	
P1102		VJS1683	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1101		2SD1996	TRANSISTOR	1	
Q1102		2SD1992A	TRANSISTOR	1	
Q1103		PS2561L1-1	TRANSISTOR	1	
Q1104		2SD1996	TRANSISTOR	1	
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R1102,03		ERDS1TJ563	C.RESISTOR 1/2W 56K	2	
R1104,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1106		ERW1PK2R2	W.RESISTOR 1W	1	
R1107		ERW1PKR39	W.RESISTOR 1W 0.39	1	
R1108		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1109		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1110		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R1111		ERG2SJ560	M.RESISTOR 2W 56	1	
R1112		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1113		ERG2SJ100U	M.RESISTOR 2W 10	1	
R1114		ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R1115		ERG1SJ182	M.RESISTOR 1W 1.8K	1	
R1116		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1118		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1119		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1120		ERG2SJ120U	M.RESISTOR 2W 12	1	
			TRANSFORMERS		
T1101		ETE28K61AY	TRANSFORMER	1	
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	
		VMZ1184	CAPACITOR COVER (B)	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP01469H	POWER C.B.A.		(NLA)<1> NV-J11AM/E
			CAPACITORS		
C1101		VCC0019	C.CAPACITOR 330P	1	
C1106		VCC0019	C.CAPACITOR 330P	1	
C1108		ECQU2A333MNB	P.CAPACITOR 100V 0.033U	1	
C1109		ECES2WU680B	E.CAPACITOR	1	
C1110		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1111		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C1114		VCC0022	C.CAPACITOR 1000P	1	
C1115		ECQE6473B11	P.CAPACITOR	1	
C1116		VCK0106K151T		1	
C1117		ECA1CXLV470	E.CAPACITOR	1	
C1118		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C1119		ECQB1H123JF	P.CAPACITOR 50V 0.012U	1	
C1120		ECEA1HNX100	E.CAPACITOR 50V 10U	1	
C1121		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1122		ECQV1H105JF	P.CAPACITOR 50V 1U	1	
C1123		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1124		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1125		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1126		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1127		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1128		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1129		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1130		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1131		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1132-35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1136,37		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1138		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1139		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1141		ECCD2H151J	C.CAPACITOR 500V 150P	1	
C1151		ECCF1H680JC5	C.CAPACITOR 50V 68P	1	
C1153		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C1154		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C1155		ECCD2H101J	C.CAPACITOR 500V 100P	1	
			DIODES		
D1101		S1WBA60S	DIODE	1	
D1102		1SS254	DIODE	1	
D1103		VSD0002	DIODE	1	
D1104		AP01C	DIODE	1	
D1105		MA4030L	DIODE	1	
D1106-08		MA178	DIODE	3	
D1109		ERA22-02	DIODE	1	
D1110		RL2Z	DIODE	1	
D1111		MA2160B	DIODE	1	
D1112		MA185	DIODE	1	
D1113,14		11EQS04	DIODE	2	
D1115		MA4130L	DIODE	1	
D1116		SNR-300K4	SURGE ABSORBER	1	
			INTEGRATED CIRCUITS		
IC1101		STRD6108	IC	1	
IC1102		SE014N	IC	1	
IC1103		VEFH24A	HIC	1	
			COILS		
L1107		ELF18D290A	COIL	1	
L1108		VLP0085	FILTER	1	
L1109		VLQ0410	COIL	1	
L1110		VLP0074	COIL	1	
L1120		VLP0085	FILTER	1	
L1121,22		VLP0074	COIL	2	
			CONNECTORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P1101		VJS2625	CONNECTOR (FEMALE)	1	
P1102		VJS1683	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1101		2SD1996	TRANSISTOR	1	
Q1102		2SD1992A	TRANSISTOR	1	
Q1103		PS2561L1-1	TRANSISTOR	1	
Q1104		2SD1996	TRANSISTOR	1	
			RESISTORS		
R1102,03		ERDS1TJ563	C.RESISTOR 1/2W 56K	2	
R1104,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1106		ERW1PK2R2	W.RESISTOR 1W	1	
R1107		ERW1PKR30	W.RESISTOR 1W 0.3	1	
R1108		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R1109		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1110		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R1111		ERG2SJ560	M.RESISTOR 2W 56	1	
R1112		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1113		ERG2SJ100U	M.RESISTOR 2W 10	1	
R1114		ERDS2TJ820	C.RESISTOR 1/4W 82	1	
R1115		ERG1SJ182	M.RESISTOR 1W 1.8K	1	
R1116		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1118		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1119		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1120		ERG2SJ120U	M.RESISTOR 2W 12	1	
			TRANSFORMERS		
T1101		ETE28K67AY	TRANSFORMER	1	
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	
		VMZ1184	CAPACITOR COVER (B)	3	
	■	VEP00R11A	PHOTO TR. (S) C.B.A.		(NLA)
			CAPACITORS		
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTORS		
P1507		VJS3049B004T	CONNECTOR (FEMALE)	1	
P1512		VJS3070T	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1501		PN150NVS	TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	HOLDER	1	
	■	---------	PHOTO TR. (T) C.B.A.		(NLA)
			CAPACITORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTORS		
P1503		VJS3049B004T	CONNECTOR (FEMALE)	1	
P1508		VJS2331	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1502		PN150NVS		1	
			RESISTORS		
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	HOLDER	1	
	■	VXA4463	MECHANISM CONNECTION C.B.A.		(NLA)
			MISCELLANEOUS		
		VJS3071T	FLAT CARD (CABLE)	1	
		ON2170-RLF	INTERUPTER	2	
		VMZ1366	SHEET	1	
	■	VEP66178H	REMOTE CONTROL C.B.A.		(NLA) NV-J11BA,J40EE
			CAPACITORS		
C6801		ECEA0GKS470	E.CAPACITOR 4V 47U	1	
C6802		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6803		ECEA1CSN4R7I	E.CAPACITOR 16V 4.7U	1	
C6804		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C6808,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6810		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6811		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6812		ECUM1E154ZFM	C.CAPACITOR CH 25V 0.15U	1	
			DIODES		
D6801		SE303ACYTF	DIODE	1	
D6803-11		MA221	DIODE	9	
D6820		MA221	DIODE	1	
			INTEGRATED CIRCUITS		
IC6801		M 158655VSTC	IC	1	
IC6802		AN8356S	IC	1	
			RESISTORS		
J6801		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
			COILS		
L6801		ELT3K017B	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTORS		
Q6801		2SD1328-R	TRANSISTOR CHIP	1	(R,S)
Q6802		MSB709-R	TRANSISTOR	1	
Q6803		MSD601-R	TRANSISTOR	1	
			COMBINATION PARTS		
QR6803		DTC144TK	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6802,03		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	2	
R6804		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R6805		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R6806		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R6807		ERJ8GCYJ1R2	M.RESISTOR CH 1/8W 1.2	1	
R6808		ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1	
R6810		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R6812		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R6813		ERJ6GEYJ6R8	M.RESISTOR CH 1/10W 6.8	1	
R6814,15		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R6816		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R6817		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
			SENSORS		
SN6801		VSQ0567	SENSOR	1	
			VARIABLE RESISTORS		
VR6801		EVNDXAA00B24	V.RESISTOR 20K	1	
			CRYSTAL OSCILLATORS		
X6801		EFOGC3524A4	CRYSTAL OSCILLATOR	1	
X6802		VSQ0765	CRYSTAL OSCILLATOR	1	